SERIES CL
LABORATORY PELLET MILLS

CALIFORNIA PELLET MILL
Your Partner in Productivity

- SMALL BATCH PROCESSING
- PROCESS EVALUATION
- LABORATORY TESTING

[Image of green pellet mill]
THE WORLD'S LARGEST MANUFACTURER

More and more industries are discovering the advantages of pelleting. As the world's largest manufacturer of pellet mills, CPM leads the way in specialized pellet mills and dies to make pelleting an easy and economical way to enhance product value and manageability. CPM manufactures a complete line of pellet mills with output capacities of up to 70 tons per hour, depending on the material being pelleted.

Here are a few of the benefits of pelleting:
- Densifies product
- Improves processing efficiency
- Reclaims or maximizes fines
- Reduces disposal costs
- Prevents product separation
- Increases particle size
- Eliminates dust
- Bonds dissimilar materials

IN THE LABORATORY

Series CL pellet mills provide a versatile, practical answer to pelleting research and development. The mills allow you to conduct experimental work in your own laboratory with your own personnel. Models can control key pelleting variables to facilitate the evaluation of moisture, particle size, etc. Pellet sizes range from 1 mm to 1 1/2" diameter, in lengths of approximately 2 to 2 1/2" times diameter. Large mills can produce pellets up to 1 1/2" diameter, round or square.

Tests involving critical and expensive materials can be conducted with small quantities, yet yield indicative results. Quantities processed may be as small as 1,000 grams.

IN THE FACTORY

Manufacturers use Series CL pellet mills to effectively solve pelleting problems offshore without costly interruption or production shut-downs. Some may produce pellets in small batches ranging from a few pounds to 1,000 pounds or more—employing several CL units as basic production tools. Others may employ one or more CL units to pellet products in batches too small for full-size pellet mills.

METHODS OF DENSIFICATION

Various methods of densification and particle size upgrading, including agglomeration, briquetting and extrusion, exist. However, pelleting is often preferred because it produces a high-density, durable product, even from lightweight, low-density products such as ground paper. Additionally, pellet mills cost less to purchase and operate.

PELLETING BY DIE AND ROLLER

Pelleting utilizes compression and extrusion to produce pellets ranging in size from 1 mm to 1 1/2" in diameter, depending upon the pellet mill model and die size. In the process, a coarse material is compressed into a durable pellet of increased bulk density in a variety of sizes. Prepared material from the supply hopper is fed continuously from a controlled, even stream to the pelleting cavity. Rotation of the die in contact with the rollers causes the rollers to turn. The material carried by the rotation of the die is compressed between the die and the roll and forced through holes in the die. As pellets are extruded, a knife shears the pellets in lengths of up to 2 1/2" times diameter.

EASY TO ASSEMBLE AND CLEAN

Compact, portable and no larger than an office desk, durable and trouble-free Series CL pellet mills are easy to use. They have a basic design and consist of easily dismantled and reassembled components. All stainless steel contact parts are easily disassembled and cleaned to maintain sanitary environment requirements. If required, the die can be purged at the end of the run with a compatible non-toxic liquid. Your operators can quickly learn the task from your CPM representative, who will assist them during the initial setup. Your CPM sales representative will also be available when needed to maintain the best possible service from your Series CL pellet mills.

LET CPM HELP YOU DECIDE

More than 500 process companies have shown upon CPM's pelleting technology and experience to help decide the best process for them. CPM maintains a facility incorporating a laboratory and production-size mills, and has conducted tests on more than 3,000 different products.

As part of your decision-making process, arrange through your CPM representative to ship your materials to us. We will give you a complete test report and samples of your pelleted material for examination. All arrangements and reports will be kept confidential. The cost is nominal.

THE CPM ADVANTAGE

CPM provides the best in equipment, dies, parts and service that combine to represent the lowest-cost solution to our customers. CPM offers you the best value package. Your CPM representative is a professional with thorough knowledge of your local conditions and processing methods. They will help you obtain maximum efficiency from your pelleting process.
<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>MODEL CL TYPE 3 LABORATORY PELLET MILL</th>
<th>MODEL CL TYPE 5 LABORATORY PELLET MILL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>45.5&quot;(L) x 34.25&quot;(H) x 63&quot;(W)</td>
<td>59.5&quot;(L) x 34.25&quot;(H) x 83&quot;(W)</td>
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<tr>
<td>Shipping weight (crated)</td>
<td>1,000 lbs.</td>
<td>1,000 lbs.</td>
</tr>
<tr>
<td>Main drive motor</td>
<td>5 HP 1,800 RPM</td>
<td>5 HP 1,800 RPM</td>
</tr>
<tr>
<td>Feeder drive</td>
<td>1/4 HP 1,800 RPM gear head motor</td>
<td>1/4 HP 1,800 RPM gear head motor</td>
</tr>
<tr>
<td>Feeder screw</td>
<td>Constant speed, variable pitch</td>
<td>Constant speed, variable pitch</td>
</tr>
<tr>
<td>Feeder hopper</td>
<td>.9614 cu. ft.</td>
<td>.9614 cu. ft.</td>
</tr>
<tr>
<td>Feeder control</td>
<td>Variable vibrating, electrically driven</td>
<td>Variable vibrating, electrically driven</td>
</tr>
<tr>
<td>Conditioner</td>
<td>N/A</td>
<td>Adjustable mixer picks</td>
</tr>
<tr>
<td>Conditioner drive</td>
<td>N/A</td>
<td>Variable speed 3/4 HP</td>
</tr>
<tr>
<td>Die speeds</td>
<td>Replaceable sheaves for 4 die speeds</td>
<td>Replaceable sheaves for 4 die speeds</td>
</tr>
<tr>
<td>Construction</td>
<td>302-304 stainless steel contact parts with wear parts of hardenable 400 series stainless or hard chrome plated</td>
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</tr>
<tr>
<td>Electrical</td>
<td>Standard for NEMA 12 operating conditions, 3-phase, 60 Hz, 230-460 volt current (electrical for special current characteristics available on request)</td>
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</tbody>
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Type 5 feeder can be used on an interchangeable basis with Type 3 feeder.
Type 5 feeder is adaptable to use of steam as pelleting aid to duplicate full-scale animal feed pelleting.

WORLDWIDE SERVICE

- Representatives in principal cities.
- Well-staffed with qualified sales, engineering and service personnel and well-stocked with dies, parts and accessories.
- Prompt, efficient processing of all customer service requirements.
- Company policy is one of continuous improvement of our products. We therefore reserve the right to change specifications without notice.

CPM Pellet Mill
Your Partner in Productivity

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