Cutter Suction Dredges

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© Ellicott Dredges
Purchasing a dredge is a major decision. Choosing the right size and model is important, but so is selecting the company who builds it. The supplier should support you with service, parts, training, and upgrades, all necessary to keep the dredge operating efficiently for 25 years or more. Ellicott has a long history of living up to these expectations, and its dredges have proven to be sound investments.

This tradition started in 1885 when Charles Ellicott started a machine shop in the growing city of Baltimore, Maryland. Business thrived, and in 1888 he was approached by a local contractor and asked to design and build new machinery for a dredge that was struggling in nearby Washington, DC. At that time, hydraulic dredging was still in its infancy and effective designs were still being explored.

Combining his engineering knowledge and manufacturing expertise, Mr. Ellicott supplied one of the first true dredge pumps and other specialized components. This retrofitted dredge was productive, reliable and well suited to its task. Word got around, and soon others started coming to Mr. Ellicott for complete dredges.

By 1907 the U.S. Corps of Engineers took notice and purchased four dredges for the largest construction project ever undertaken—the Panama Canal. The successful performance of these machines led to “Ellicott” becoming a name known all over the world for strong, capable, and versatile dredges.

From the beginning, Ellicott believed that developing innovations to meet the needs of customers was just as important as building reliable dredges. This philosophy led to many industry firsts including portable dredges, the swinging ladder dredge, submerged ladder pumps for deep digging and the bucket wheel excavator system.

Ellicott has grown to become one of the world’s largest dredge manufacturers, and while its products incorporate the best available technology, they are sold under the basic principles established by Mr. Ellicott over a century ago:

- Supply dredges that are designed to meet the customer’s requirements.
- Build them to the highest standards.
- Offer service and training for every dredge.

This tradition of offering modern, efficient, and well built dredges continues today as Ellicott® dredges find their way to all corners of the world.

Ellicott designs and builds dredges at its Baltimore, Maryland and New Richmond, Wisconsin USA plants (pictured above) plus occasional overseas shipyards.
### 370 Dragon®
12” x 10” (304 x 254 mm)

- Portable Dredges with a Simple Design—Ideal for First-time Owners
- High Durability and Easy to Maintain
- Specially Designed Control System, Engine, and Mechanical Components for Marine and Tropical Environments
- Choice of Digging Depths Available
- The 670’s Full-length Side Tanks Provide Added Stability & Deck Space
- The 370 is also Available with Hydrostatic Pump Drive and Electronic Control System

<table>
<thead>
<tr>
<th>Unit Model Digging Depths</th>
<th>370</th>
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<tbody>
<tr>
<td></td>
<td>20 ft</td>
</tr>
<tr>
<td></td>
<td>(6 m)</td>
</tr>
<tr>
<td>Cutter Power</td>
<td>40HP (30 kW)</td>
</tr>
<tr>
<td>Pump Power</td>
<td>350HP (261 kW)</td>
</tr>
<tr>
<td>Total Power</td>
<td>440 HP (328 kW)</td>
</tr>
<tr>
<td>Nominal Pump Capacity</td>
<td>Up to 250 yd³/hour (190 m³/hour)</td>
</tr>
</tbody>
</table>

### 670 Dragon®
14” x 12” (356 x 304 mm) or 14” x 14” (356 x 356 mm)

<table>
<thead>
<tr>
<th>Unit Model Digging Depths</th>
<th>670</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>33 ft</td>
</tr>
<tr>
<td></td>
<td>(10 m)</td>
</tr>
<tr>
<td>Cutter Power</td>
<td>100HP (75 kW)</td>
</tr>
<tr>
<td>Pump Power</td>
<td>620HP (462 kW)</td>
</tr>
<tr>
<td>Total Power</td>
<td>800 HP (597 kW)</td>
</tr>
<tr>
<td>Nominal Pump Capacity</td>
<td>Up to 425 yd³/hour (345 m³/hour)</td>
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</table>

370-20 (6 m) dredging a marina

370-42 ft. (12.8 m) mining sand

670-33 ft. (10 m) dredging small port

670-42 ft. (12.8 m) dredging a river
Medium Range Cutterhead Dredges
14 inch-18 inch

870JD Jet Dragon®
14” x 14” (356 x 356 mm)

870JD 60 ft. (18 m) used for sand mining

Digging Depth | 60 ft. (18 m)
--- | ---
Cutter Power | 100HP (75 kW)
Pump Power | 575HP (429 kW)
Total Power | 960 HP (716 kW)
Nominal Pump Capacity | Up to 450 yd³/hour (345 m³/hour)

- Ideal Medium Size Dredge for Deep Digging Applications
- Hydra-Jet Suction Assist Allows for High Production at any Digging Depth
- NO Submerged Ladder Pump—Keeps Design and Maintenance Simple

1170 Dragon®
16” x 16” (406 x 406 mm)

Digging Depth | 33 ft. (10.5 m) | 50 ft. (15.24 m)
--- | --- | ---
Cutter Power | 155 HP (116 kW)
Pump Power | 850 HP (634 kW) | 1000 HP (746 kW)
Total Power | 1200 HP (895 kW) | 1350 HP (1007 kW)
Nominal Pump Capacity | Up to 600 yd³/hour (460 m³/hour)

- High Production with Dedicated Engine for Pumping System
- Separate Engine for Hydraulic System
- Used in a Variety of Applications including Coastal, River Dredging, and Sand and Gravel Mining

1270 Dragon®
18” x 18” (457 x 457 mm)
Large Portable Cutterhead Dredges
18 inch-24 inch

1870 Dragon®
20” x 20” (508 x 508 mm)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Digging Depth</td>
<td>50 ft. (15.24 m)</td>
</tr>
<tr>
<td>Cutter Power</td>
<td>250 HP (186 kW)</td>
</tr>
<tr>
<td>Pump Power</td>
<td>1280 HP (955 kW)</td>
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<tr>
<td>Total Power</td>
<td>1755 HP (1309 kW)</td>
</tr>
<tr>
<td>Nominal Pump Capacity</td>
<td>Up to 1000 yd³/hr (775 m³/hr)</td>
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</tbody>
</table>

- 5-piece Hull allows Transport by Trucks
- Optional Spud Carriage & Anchor Booms
- Separate Engines for Dredge Pump and Hydraulic System and Generator
- Proven Record for River Dredging, Port Applications and Land Reclamation

4170 Super-Dragon™
27” x 24” (686 x 610 mm)

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<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Digging Depth</td>
<td>58 ft. (17.7 m)</td>
</tr>
<tr>
<td>Cutter Power</td>
<td>750 HP (560 kW)</td>
</tr>
<tr>
<td>Pump Power</td>
<td>2680 HP (1998 kW)</td>
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<tr>
<td>Total Power</td>
<td>4232 HP (3156 kW)</td>
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<tr>
<td>Nominal Pump Capacity</td>
<td>Up to 1800 yd³/hr (1375 m³/hr)</td>
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- Heavy-duty, Long Life Design
- 750 HP Cutter allows Digging of Very Hard Materials
- Available as a Single Welded Monohull Design or 6-piece Dismountable Hull
- Optional Spud Carriage & Anchor Booms
Custom Dredges and Special Features

Super-Dragon™
Greater than 24” Discharge

Coastal Dragon®
Hulls with Additional Freeboard

Wheel-Dragon™
Dual Wheel Excavators

Electric Dredges
Available in All Sizes

Booster Pumps
325HP through 2,000HP

- Ideal for Pumping Greater Distances
- Skid Mounted or Floating
- Electric or Diesel

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