GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 index.

We live our values.
Excellence • Passion • Integrity • Responsibility • GEA-versity

Power Take-Off Pumps

Powerful PTO pumps to handle liquid manure
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Loading Pipes

Loading Pipe on Tripod

Key Features
- Aluminum loading pipe measuring 25' (7.62 m) long;
- 6" (150 mm) discharge or 8" (200 mm) discharge for faster loading and less velocity;
- Available with 20°, 70° or 90° elbows.

Loading Pipe on Wheels

Key Features
- 8" (200 mm) to 10" (250 mm) loading pipe to decrease the velocity by 36% and reduce the foaming produced when using a high output pump;
- Steel loading pipe measuring 30' (9.14 m) long;
- Hose adapter at the intake.

Optional
- Hydraulic height adjustment;
- Accessories basket.
For decades we have been offering PTO pumps, a wide range of products designed to agitate and facilitate the evacuation of manure from your main manure storage pit.

Because manure characteristics are as varied as the types of storage, GEA Farm Technologies has extended the strength and power of its two main pumps, the Agi-Pompe and Super Pump, toward three distinct uses.

- The vertical pumps offer six different configurations to allow easy installation and removal from concrete pits.
- Our lagoon pumps are specifically designed to facilitate the approach, agitation and transfer of manure from lagoons.
- The far-reaching articulated pumps, secured solidly with a 3-point hitch are designed to mix and transfer manure from larger concrete pits.

GEA Farm Technologies strives to provide solutions that support proper manure management by offering products with a wide range of options to aid in manure transfer from pits, lagoons and to our spreaders.

With our knowledge of manure, we have the ability to anticipate the needs of farmers and transform that knowledge into ingenious, efficient and high quality products. GEA Farm Technologies - The right choice when it comes to manure handling.

GEA Farm Technologies cares about the quality of the environment and continuously works to implement effective environmental management systems applicable in all facets of the business.
Agi-Pompe

The Agi-Pompe, with its high quality impeller and propeller offers outstanding performance and a long life span. The Agi-Pompe is used to homogenize and transfer liquid manure containing long bedding and bottom sediments.

**Hog Slurry & Dairy Manure**

<table>
<thead>
<tr>
<th>Maximum transfer consistency</th>
<th>3/4&quot; (19 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum agitation consistency</td>
<td>1 1/2&quot; (38 mm)</td>
</tr>
</tbody>
</table>

*With optional abrasive resistant steel housing and bottom plate.

**Maximum transfer consistency**

Straw | Sawdust | Sand
--- | --- | ---
3/4" (19 mm)
1 1/2" (38 mm)

**Maximum agitation consistency**

Straw | Sawdust | Sand
--- | --- | ---
3/4" (19 mm)
1 1/2" (38 mm)

**Horsepower Requirements**

<table>
<thead>
<tr>
<th>RPM</th>
<th>Straw</th>
<th>Sawdust</th>
<th>Sand</th>
</tr>
</thead>
<tbody>
<tr>
<td>540</td>
<td>70 - 110 HP (52 - 82 kW)</td>
<td>125 - 140 HP (93 - 104 kW)</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>70 - 110 HP (52 - 82 kW)</td>
<td>125 - 140 HP (93 - 104 kW)</td>
<td></td>
</tr>
</tbody>
</table>

**Impeller and Housing**

20" (508 mm) impeller featuring self-cleaning blades and reversible knives at the intake.

**Articulated Housing**

The Articulated Housing is a valuable, time saving option. The agitation nozzle combined with the 40° vertical rotation of the articulated housing creates enough turbulence to significantly reduce the time needed to homogenize your main storage. It can be installed on the Articulated or the Lagoon Agi-Pompe.

**Other Options**

**Articulated Housing**

The Articulated Housing is a valuable, time saving option. The agitation nozzle combined with the 40° vertical rotation of the articulated housing creates enough turbulence to significantly reduce the time needed to homogenize your main storage. It can be installed on the Articulated or the Lagoon Agi-Pompe.

**Lower Housing Articulation**

Approximately 20° Downward

Approximately 20° Upward
Articulated Pump Options

Adjustable Heavy-Duty 3-Point Hitch
Optional on the 18’ (5.5 m) and 21’ (6.4 m) model. Standard on the 24’ (7.32 m) model.

Wheels and Tow Bar Kit
For road travel.

Remote Control
To operate the pump and its multiple functions from inside the cab using 1 hydraulic outlet.

Drive Line in Oil Bath

Knife Kit on Propeller
To cut fibrous material and aid in the discharge of manure.
On Agi-Pompe only.

Low Pressure Discharge Elbow
Reduces the pressure of the loading pipe discharge.

Remote Grease Line Kit
To lubricate the bearing housing without removing the pump.

Abrasive Resistant Steel Housing / Bottom Plate
To pump manure containing sand.

Working Range

Performance Chart

6" Agi-Pompe
24" (610 mm) propeller and 20" (510 mm) impeller

<table>
<thead>
<tr>
<th>Ratio</th>
<th>RPM</th>
<th>24&quot; (610 mm) Propeller</th>
<th>3&quot; (76 mm) Nozzle</th>
<th>3½&quot; (89 mm) Nozzle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>US gpm</td>
<td>lpm</td>
<td>US gpm</td>
</tr>
<tr>
<td>-26%</td>
<td>1000</td>
<td>26 525</td>
<td>100 408</td>
<td>1 400</td>
</tr>
<tr>
<td>-35%</td>
<td>1000</td>
<td>24 750</td>
<td>93 689</td>
<td>1 325</td>
</tr>
<tr>
<td>+26%</td>
<td>540</td>
<td>22 975</td>
<td>86 970</td>
<td>1 200</td>
</tr>
<tr>
<td>+10%</td>
<td>540</td>
<td>20 275</td>
<td>76 749</td>
<td>1 075</td>
</tr>
<tr>
<td>1 to 1</td>
<td>540</td>
<td>18 150</td>
<td>68 705</td>
<td>950</td>
</tr>
</tbody>
</table>

Performances are obtained with approx. ½” (13 mm) manure consistency.
Super Pump

The Super Pump is built with the same high quality construction as the Agi-Pompe and is the right choice to agitate and transfer slurry containing a limited amount of chopped bedding.

Horsepower Requirements

<table>
<thead>
<tr>
<th>Horsepower Requirements</th>
<th>Maximum consistency</th>
<th>Maximum transfer consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>540 RPM</td>
<td>70 - 100 HP</td>
<td>3/4&quot; (19 mm)</td>
</tr>
<tr>
<td>1000 RPM</td>
<td>95 - 210 HP</td>
<td>1 1/2&quot; (38 mm)</td>
</tr>
</tbody>
</table>

*With optional abrasive resistant steel housing and bottom plate.

The information above applies to the Super Pump.

Articulated Super Pump for Lagoon

This Super Pump is especially designed for narrow areas and for lagoons up to 25’ (7.6 m) deep with steep banks.

Hog Slurry & Manure

<table>
<thead>
<tr>
<th>Maximum transfer consistency 3/4&quot; (19 mm)</th>
<th>Maximum agitation consistency 2 1/4&quot; (57 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straw</td>
<td>Sand</td>
</tr>
</tbody>
</table>

The information above applies to the Articulated Super Pump for Lagoon.

Impeller and Housing

20" to 28" (508 to 711 mm) impeller featuring self-cleaning blades and reversible knives at the intake.

- **Maximum agitation:**
  - Sawdust Sand: 2 1/4" (57 mm)
  - Straw: 1 1/2" (38 mm)

- **Maximum transfer:**
  - Sawdust Sand: 3/4" (19 mm)
  - Straw: 2" (51 mm)

- **Consistency:**
  - Sawdust Sand: 2 1/4" (57 mm)
  - Straw: 1 1/2" (38 mm)
  - Sawdust Sand: 3/4" (19 mm)

- **Power Take-Off Pumps**
  - 6" (150 mm) discharge
  - 8" (200 mm) directional valve that can be operated while the pump is at low RPM

- **Visual indicator rod (agitation/loading)**
- **Rotative valve (agitation/loading)**
- **Nozzle mounted above the liquid with 180° horizontal rotation and 90° vertical articulation.**

- **Portable hydraulic controls**
- **Air relief valve**
- **26" (660 mm) impeller and 8" (200 mm) discharge**

- **Double articulated #77 joint in oil bath for low maintenance**
- **Heavy-duty drive line with #55 PTO**
- **Abrasive resistant steel housing and bottom plate**
- **Wide support for more stability in the bottom of the lagoon**

- **Handle to operate the agitation nozzle vertically**
- **Oil cooler: standard on a 200 or 250 gearbox**
- **Visual indicator rod (agitation/loading)**
- **Rotative valve (agitation/loading)**
- **Nozzle mounted above the liquid with 180° horizontal rotation and 90° vertical articulation.**

- **Mounting:**
  - **20" (508 mm) impeller.**
  - **24" (7.32 m) 16" (4.88 m) 24" (7.32 m) 18" (5.5 m) 24" (7.32 m) 18" (5.5 m)**
  - **21" (6.4 m) 14" (4.27 m) 21" (6.4 m) 16" (4.88 m) 21" (6.4 m) 16" (4.88 m)**

- **Length Pit depth:**
  - 32’ (9.75 m) 25’ (7.62 m)
  - 32’ (9.75 m) 25’ (7.62 m)

- **Duty 3-point hitch**
- **Adjustable heavy-duty 3-point hitch**
- **V-groove for reliable and long-lasting operation**

- **250 gearbox**
- **Oil cooler: standard on a 200 or 250 gearbox**
Articulated Super Pump

The Articulated Super Pump allows far-reaching access into concrete pits and provides power entirely concentrated on manure pumping.

- Standard 3-point hitch.
- Easy access for maintenance of the driveline joint.
- Double-hinged articulation for constant flow with less restriction.
- Adjustable nozzle 3", 3 1/2" (76 - 89 mm) or 3 3/4" - 4" (99 - 102 mm)
- Wide operating range anti-swell agitation nozzle with 320° horizontal rotation and 180° vertical articulation
- 6" (150 mm) directional valve (agitation/loading) that can be operated while the pump is at low RPM
- Available in 8" (200 mm) for faster loading and better agitation.
- 26" (660 mm) or 28" (711 mm) impeller with soft cleaning blades and reversible knives at intake.

Performance Chart

6" Super Pump
20" (510 mm) impeller

<table>
<thead>
<tr>
<th>Ratio</th>
<th>RPM</th>
<th>US gpm</th>
<th>lpm</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000</td>
<td>1475</td>
<td>5 500</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>540</td>
<td>1250</td>
<td>4 700</td>
<td>85</td>
</tr>
<tr>
<td>-26%</td>
<td>1025</td>
<td>5 500</td>
<td>110</td>
<td></td>
</tr>
<tr>
<td>+26%</td>
<td>1850</td>
<td>7 000</td>
<td>125</td>
<td></td>
</tr>
</tbody>
</table>

8" Super Pump
21" (530 mm) impeller

<table>
<thead>
<tr>
<th>Ratio</th>
<th>RPM</th>
<th>US gpm</th>
<th>lpm</th>
<th>HP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000</td>
<td>1625</td>
<td>6 150</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>2 125</td>
<td>8 100</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>-26%</td>
<td>1425</td>
<td>6 150</td>
<td>130</td>
<td></td>
</tr>
</tbody>
</table>
| 22" (560 mm) impeller - 4 blades
| -26%  | 1000 | 1725 | 6 500 | 155 |
| -26%  | 1 725 | 8 575 | 170 |

To handle manure with a limited amount of chopped bedding in a pit using a tractor with a minimum of 80 HP, 540 RPM only.

- With optional abrasive resistant steel housing and bottom plate.

The information above applies to the 28" (711 mm) impeller.
The far-reaching Articulated Agi-Pompe with its solid 3-point hitch allows faster agitation and transfer of the manure from a larger concrete pit.

---

**Agi-Pompe and Super Pump Configurations**

**Stationary**

Pumps available for pits 5'-6" (1.7 m) deep and up.

**Trailer**

Pumps available for pits ranging from 5'-6" to 18' (1.7 to 5.5 m) deep.

**Sliding 3-Point Hitch**

Pumps available for pits ranging from 5'-6" to 12' (1.7 to 3.7 m) deep.

**Tilting 3-Point Hitch**

Pumps available for pits ranging from 5'-6" to 13' (1.7 to 4 m) deep.

---

**Articulated Agi-Pompe**

To rapidly homogenize liquid manure using a tractor with a minimum of 140 HP, 540 RPM only.

---

* With optional abrasive resistant steel housing and bottom plate.

---

Hog Slurry & Dairy Manure

<table>
<thead>
<tr>
<th>Maximum transfer consistency</th>
<th>Maximum agitation consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot; (19 mm)</td>
<td>1 1/2&quot; (38 mm)</td>
</tr>
</tbody>
</table>

Straw

- With optional abrasive resistant steel housing and bottom plate.

Sawdust Sand

Hog Slurry & Dairy Manure

<table>
<thead>
<tr>
<th>Maximum consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straw</td>
</tr>
<tr>
<td>Sawdust, Sand</td>
</tr>
</tbody>
</table>

To rapidly homogenize liquid manure using a tractor with a minimum of 140 HP, 540 RPM only.

---

**Portable hydraulic controls**

- Double hinged articulation for constant flow with less restriction.
- 6" (150 mm) aluminum discharge, also available in 8" (200 mm) for faster loading.
- 20" (508 mm) or 24" (610 mm) propeller.
- Constant agitation up to 21 500 US gpm (81 386 lpm).

Low maintenance gearbox in oil bath.

Standard 3-point hitch.

Easy access for maintenance of the driveline joint.

---

**Pump Lengths Available**

<table>
<thead>
<tr>
<th>Length</th>
<th>Pit depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>18' (5.5 m)</td>
<td>12' (3.66 m)</td>
</tr>
<tr>
<td>21' (6.4 m)</td>
<td>14' (4.27 m)</td>
</tr>
<tr>
<td>24' (7.32 m)</td>
<td>16' (4.88 m)</td>
</tr>
</tbody>
</table>

---

**Articulated drive line with double joint for a vibration-free operation.**

Also available:
- Double joint in oil bath for low maintenance.
- 855 PTO double joint.

Heavy-duty drive line with 855 PTO.

Low maintenance gear box protected by our 3 seal system on each shaft to protect against contamination. A heavy-duty gear box is also available.

---

**Adjustable nozzle 3", 3 1/2" (76 - 89 mm) or 3 1/4", 4" (89 - 102 mm).**

---

Wide operating range anti-swirl agitation nozzle with 320° horizontal rotation and 130° vertical articulation.

---

20" (508 mm) or 24" (610 mm) propeller.

Constant agitation up to 21 500 US gpm (81 386 lpm).

26" (660 mm) impeller.

---

**Available in 1000 RPM with gearbox reduction.**
Lagoon Pump Options

Remote Control
To operate the pump and its multiple functions from inside the cab using 1 hydraulic outlet.

Drive Line in Oil Bath

Knife Kit on Propeller
To cut fibrous material and aid in the discharge of manure.
On Agi-Pompe only.

Low Pressure Discharge Elbow
Reduces the pressure of the loading pipe discharge.

Remote Grease Line Kit
To lubricate the bearing housing without removing the pump.

Abrasive Resistant Steel Housing / Bottom Plate
To pump manure containing sand.

3-Point Hitch for Aboveground Tank
Pumps available for aboveground tanks or semi aboveground tanks up to 20' (6.1 m) deep.
Available only on Agi-Pompe and 6” Super Pump.

Pump Deployment

Step 1
Step 2
Step 3
Agri-Pompe and Super Pump Configurations

Trailer for Aboveground Tank
For aboveground tanks up to 20’ (6.1 m) deep.
Available only on Agi-Pompe and 8” Super Pump.

Multipurpose Undercarriage
For lagoons and concrete pits.

Safety Device
To lock the hydraulic cylinders when traveling.

Pump Deployment

Step 1
Step 2
Step 3
Lagoon Agi-Pompe and Super Pump

Undercarriage
Five robust trailers expressly designed to fit every lagoon pump.

Undercarriage Compatibility

<table>
<thead>
<tr>
<th>Pump Lengths Available</th>
<th>Undercarriage Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>32' (9.8 m)</td>
<td>Standard</td>
</tr>
<tr>
<td>14' (4.3 m) Lagoon depth</td>
<td>Included</td>
</tr>
<tr>
<td>15' (4.6 m) Lagoon depth</td>
<td>Included</td>
</tr>
<tr>
<td>22' (6.7 m) Lagoon depth</td>
<td>Option</td>
</tr>
<tr>
<td>22' (6.7 m) Lagoon depth</td>
<td>Option</td>
</tr>
<tr>
<td>22' (6.7 m) Lagoon depth</td>
<td>Option</td>
</tr>
</tbody>
</table>

Agi-Pompe and Super Pump Options

Hydraulic Controls
3 levers operating the nozzles with one more on the Agi-Pompe to operate the propeller.

Electric Super Pump
The alternative for operating a stationary Super Pump where space does not allow a tractor.

Additional Bottom Nozzle
To keep bottom sediments in suspension. 220° horizontal rotation. On Super Pump only.

Knife Kit on Propeller
To cut fibrous material and aid in the discharge of manure. On Agi-Pompe only.

Remote Grease Line Kit
To lubricate the bearing housing without removing the pump.

Abrasive Resistant Steel Housing / Bottom Plate
To pump manure containing sand.

Additional Gearbox
To empty pits of different depths. A minimum of 36” (914 mm) is required between the two gearboxes. Available only on the Trailer Agi-Pompe and 6” Super Pump.
Lagoon Agi-Pompe and Super Pump

These heavy-duty pumps will rapidly homogenize liquid manure in lagoons. Our lagoon pumps will provide you with excellent stability to work safely.

**Lagoon Agi-Pompe**

<table>
<thead>
<tr>
<th>Hog Slurry &amp; Dairy Manure</th>
<th>Maximum transfer consistency</th>
<th>Maximum agitation consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3/4&quot; (19 mm)</td>
<td>1 1/2&quot; (38 mm)</td>
</tr>
</tbody>
</table>

- Straw
- Sawdust
- Sand*

* With optional abrasive resistant steel housing and bottom plate.

To homogenize liquid manure using a tractor with a minimum of 80 HP, 540 RPM only.

Available in 1000 RPM for tractors with a minimum of 160 HP.

**Agi-Pompe Housing and Impeller**

20" (508 mm) or 26" (660 mm) impeller.

- Gearbox protected by our 3 seal system on each shaft to protect against contamination
- A heavy-duty gearbox is also available

- 20" (508 mm) or 24" (610 mm) propeller with knife kit to cut fibrous material. Constant agitation of up to 21 500 US gpm (81 386 lpm)

**Draw Bar and Hitch**

Length and angle are adjustable to avoid PTO vibration.

**Lagoon Super Pump**

<table>
<thead>
<tr>
<th>Hog Slurry &amp; Dairy Manure</th>
<th>Maximum transfer consistency</th>
<th>Maximum agitation consistency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3/4&quot; (19 mm)</td>
<td>2 1/4&quot; (57 mm)</td>
</tr>
</tbody>
</table>

- Straw
- Sawdust
- Sand*

* With optional abrasive resistant steel housing and bottom plate.

To handle slurry using a tractor with a minimum of 80 HP, 540 RPM.

Available in 1000 RPM for tractors with a minimum of 180 HP.

Super Pump Housing and Impeller

26" (660 mm) or 28" (711 mm) impeller with 540 RPM or 23" (584 mm) impeller with 1000 RPM.
Lagoon Agi-Pompe and Super Pump

These heavy-duty pumps will rapidly homogenize liquid manure in lagoons. Our lagoon pumps will provide you with excellent stability to work safely.

Lagoon Agi-Pompe

<table>
<thead>
<tr>
<th>Hog Slurry &amp; Dairy Manure</th>
<th>Maximum transfer consistency</th>
<th>3/4&quot; (19 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straw</td>
<td>Maximum agitation consistency</td>
<td>1 1/2&quot; (38 mm)</td>
</tr>
</tbody>
</table>

To homogenize liquid manure using a tractor with a minimum of 80 HP, 540 RPM only. Available in 1000 RPM for tractors with a minimum of 160 HP.

* With optional abrasive resistant steel housing and bottom plate.

Agi-Pompe Housing and Impeller

20" (508 mm) or 26" (660 mm) impeller.

- Gearbox protected by our 3 seal system on each shaft to protect against contamination
- A heavy-duty gearbox is also available
- 20" (508 mm) or 24" (610 mm) propeller with knife kit to cut fibrous material. Constant agitation of up to 3500 US gpm (13,000 lpm)

Draw Bar and Hitch

Length and angle are adjustable to avoid PTO vibration.

Lagoon Super Pump

<table>
<thead>
<tr>
<th>Hog Slurry &amp; Dairy Manure</th>
<th>Maximum transfer consistency</th>
<th>3/4&quot; (19 mm)</th>
</tr>
</thead>
</table>

To handle slurry using a tractor with a minimum of 80 HP, 540 RPM. Available in 1000 RPM for tractors with a minimum of 180 HP.

* With optional abrasive resistant steel housing and bottom plate.

The information above applies to the 28" (711 mm) impeller.

Super Pump Housing and Impeller

26" (660 mm) or 28" (711 mm) impeller with 540 RPM or 23" (584 mm) impeller with 1000 RPM.

- Shoulder blades to break up large chunks
- Self-cleaning impeller blades with reversible knives at the intake

GEA Farm Technologies | 13
Lagoon Agi-Pompe and Super Pump

Undercarriage
Five robust trailers expressly designed to fit every lagoon pump.

Standard Undercarriage

Heavy-Duty Undercarriage with Articulated Stabilizer Wheels

Undercarriage Compatibility

<table>
<thead>
<tr>
<th>Pump Lengths Available</th>
<th>Undercarriage Models</th>
<th>Standard</th>
<th>Heavy-Duty</th>
<th>Heavy-Duty XL</th>
<th>Articulated Stab. Wheels</th>
<th>Multipurpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>32' (9.8 m)</td>
<td>14' (4.3 m) lagoon depth</td>
<td>- Included</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>42' (12.8 m)</td>
<td>18' (5.5 m) lagoon depth</td>
<td>- Included</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>42' (15.9 m)</td>
<td>22' (6.7 m) lagoon depth</td>
<td>- - Included</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>52' (15.9 m)</td>
<td>22' (6.7 m) lagoon depth</td>
<td>- - - Included</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>62' (18.9 m)</td>
<td>22' (6.7 m) lagoon depth</td>
<td>- - - Included</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>72' (22 m)</td>
<td>22' (6.7 m) lagoon depth</td>
<td>- - - Included</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Not available

Agi-Pompe and Super Pump Options

Hydraulic Controls
3 levers operating the nozzles with one more on the Agi-Pompe to operate the propeller.

Electric Super Pump
The alternative for operating a stationary Super Pump where space does not allow a tractor. On Super Pump only.

Additional Bottom Nozzle
To keep bottom sediments in suspension. 220° horizontal rotation.

Knife Kit on Propeller
To cut fibrous material and aid in the discharge of manure.
On Agi-Pompe only.

Remote Grease Line Kit
To lubricate the bearing housing without removing the pump.

Abrasive Resistant Steel Housing / Bottom Plate
To pump manure containing sand.

Additional Gearbox
To empty pits of different depths. A minimum of 36" (914 mm) is required between the two gearboxes. Available only on the Trailer Agi-Pompe and 6" Super Pump.
Agi-Pompe and Super Pump Configurations

Trailer for Aboveground Tank
For aboveground tanks up to 20’ (6.1 m) deep.
Available only on Agi-Pompe and 8” Super Pump.

Multipurpose Undercarriage
For lagoons and concrete pits.

Safety Device
To lock the hydraulic cylinders when traveling.
Lagoon Pump Options

Remote Control
To operate the pump and its multiple functions from inside the cab using 1 hydraulic outlet.

Drive Line in Oil Bath

Knife Kit on Propeller
To cut fibrous material and aid in the discharge of manure.
On Agi-Pompe only.

Low Pressure Discharge Elbow
Reduces the pressure of the loading pipe discharge.

Remote Grease Line Kit
To lubricate the bearing housing without removing the pump.

Abrasive Resistant Steel Housing / Bottom Plate
To pump manure containing sand.

3-Point Hitch for Aboveground Tank
Pumps available for aboveground tanks or semi aboveground tanks up to 20’ (6.1 m) deep.
Available only on Agi-Pompe and 6” Super Pump.

Pump Deployment

Step 1

Step 2

Step 3
The far-reaching Articulated Agi-Pompe with its solid 3-point hitch allows faster agitation and transfer of the manure from a larger concrete pit.

### Maximum transfer consistency
- Straws: 3/4'' (19 mm)
- Sawdust: 1 1/2'' (38 mm)
- Sand: 1 1/2'' (38 mm)

### Maximum agitation consistency
- Straws: 2 1/4'' (57 mm)
- Sawdust: 2 1/4'' (57 mm)
- Sand: 2'' (51 mm)

**With optional abrasive resistant steel housing and bottom plate.

### To rapidly homogenize liquid manure using a tractor with a minimum of 140 HP. 540 RPM only.**

### Low maintenance gearbox in oil bath.

### Standard 3-point hitch.

### Easy access for maintenance of the driveline joint.

### Pump Lengths Available
- **12’ (3.66 m)**
- **18’ (5.5 m)**
- **21’ (6.4 m)**
- **24’ (7.32 m)**

### Articulated drive line with double joint for a vibration-free operation.

### Double-hinged articulation for constant flow with less restriction.

### 6” (150 mm) directional valve (agitation/loading) that can be operated while the pump is at low RPM.

### Available in 8” (200 mm) for faster loading and better agitation.

### Portable hydraulic controls

### Adjustable nozzle 3” - 3 1/2” (76 - 89 mm) or 3 1/4” - 4” (89 - 102 mm).

### Wide operating range anti-swirl agitation nozzle with 320° horizontal rotation and 130° vertical articulation.

### 6” (150 mm) aluminum discharge; also available in 8” (200 mm) for faster loading.

### Low maintenance gearbox protected by our 3 seal system on each shaft to protect against contamination.

### A heavy-duty gearbox is also available.

### Also available:
- Double joint in oil bath for low maintenance.
- #77 double joint.

### **Available in 1000 RPM with gearbox reduction.**
Articulated Super Pump

The Articulated Super Pump allows far-reaching access into concrete pits and provides power entirely concentrated on manure pumping.

To handle manure with a limited amount of chopped bedding in a pit using a tractor with a minimum of 80 HP, 540 RPM only.

* With optional abrasive resistant steel housing and bottom plate.

The information above applies to the 28” (711 mm) impeller.

---

**Pump Lengths Available**

<table>
<thead>
<tr>
<th>Length (ft)</th>
<th>Pit depth (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 (5.18)</td>
<td>12 (3.66)</td>
</tr>
<tr>
<td>18 (5.5)</td>
<td>14 (4.27)</td>
</tr>
<tr>
<td>21 (6.4)</td>
<td>16 (4.88)</td>
</tr>
<tr>
<td>24 (7.32)</td>
<td>18 (5.5)</td>
</tr>
</tbody>
</table>

---

**Performance Chart**

### 6” Super Pump

<table>
<thead>
<tr>
<th>Ratio</th>
<th>RPM</th>
<th>3” (76 mm) single nozzle</th>
<th>3⅜” (89 mm) single nozzle</th>
<th>Twin 3” (76 mm) nozzle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>US gpm</td>
<td>lpm</td>
<td>HP</td>
</tr>
<tr>
<td>≥-26%</td>
<td>1000</td>
<td>1 475</td>
<td>5 500</td>
<td>110</td>
</tr>
<tr>
<td>+26%</td>
<td>540</td>
<td>1 250</td>
<td>4 700</td>
<td>85</td>
</tr>
<tr>
<td>+10%</td>
<td>540</td>
<td>1 125</td>
<td>4 200</td>
<td>70</td>
</tr>
</tbody>
</table>

### 8” Super Pump

<table>
<thead>
<tr>
<th>Ratio</th>
<th>RPM</th>
<th>21” (530 mm) impeller</th>
<th>22” (560 mm) impeller - 4 blades</th>
<th>22” (560 mm) impeller - 6 blades</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥-26%</td>
<td>1000</td>
<td>1 625</td>
<td>6 150</td>
<td>130</td>
</tr>
<tr>
<td>+26%</td>
<td>1000</td>
<td>2 150</td>
<td>8 250</td>
<td>145</td>
</tr>
<tr>
<td>+10%</td>
<td>1000</td>
<td>1 725</td>
<td>6 500</td>
<td>155</td>
</tr>
</tbody>
</table>

---

**Working Range**

---

### Articulated Super Pump

- Standard 3-point hitch.
- Easy access for maintenance of the driveline joint.
- Adjustable nozzle 3”, 3 ½” (76 - 89 mm) or 3 ⅜” (89 - 102 mm) for constant flow with less restriction.
- Wide operating range anti-swirl agitation nozzle with 320° horizontal rotation and 190° vertical articulation.
- 6” (150 mm) directional valve (agitation/loading) that can be operated while the pump is at low RPM.
- Available in 8” (200 mm) for faster loading and better agitation.
- 24” (660 mm) or 28” (711 mm) impeller with self-cleaning blades and reversible knives at intake.
- Articulated drive line with double joint for a vibration free operation.
- Also available: - Double joint in oil bath for low maintenance. - 87° double joint.
- Heavy-duty drive line with 855 PTO.
- Portable hydraulic controls.
- Double-hinged articulation for constant flow with less restriction.
- 6” (150 mm) aluminum discharge; also available in 8” (200 mm) for faster loading.
- Twin 3” (76 mm) nozzle.
Super Pump

The Super Pump is built with the same high quality construction as the Agi-Pompe and is the right choice to agitate and transfer slurry containing a limited amount of chopped bedding.

**Horsepower Requirements**

<table>
<thead>
<tr>
<th>Horsepower</th>
<th>540 RPM</th>
<th>1000 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 - 100 HP</td>
<td>95 - 210 HP</td>
<td></td>
</tr>
<tr>
<td>(52 - 74.5 kW)</td>
<td>(71 - 156.5 kW)</td>
<td></td>
</tr>
</tbody>
</table>

*With optional abrasive resistant steel housing and bottom plate.

The information above applies to the 28'' (711 mm) impeller.

**Impeller and Housing**

20'' to 28'' (508 to 711 mm) impeller featuring self-cleaning blades and reversible knives at the intake.

**Articulated Super Pump for Lagoon**

This Super Pump is especially designed for narrow areas and for lagoons up to 25' (7.6 m) deep with steep banks.

**Horsepower Requirements**

<table>
<thead>
<tr>
<th>Horsepower</th>
<th>540 RPM</th>
<th>1000 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 - 140 HP</td>
<td>170 - 180 HP</td>
<td></td>
</tr>
<tr>
<td>(52 - 82 kW)</td>
<td>(125 - 135 kW)</td>
<td></td>
</tr>
</tbody>
</table>

To handle heavy slurry using a tractor with a minimum of 120 HP. 540 RPM only.

**Pump Lengths Available**

<table>
<thead>
<tr>
<th>Length</th>
<th>Pit depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>12' (3.66 m)</td>
<td>25' (7.62 m)</td>
</tr>
<tr>
<td>18' (5.5 m)</td>
<td>32' (9.75 m)</td>
</tr>
</tbody>
</table>

**Articulated #77 joint in oil bath for low maintenance**

Heavy-duty drive line with 855 PTO

Abrasive resistant steel housing and bottom plate

Wide support for more stability in the bottom of the lagoon

8'' (200 mm) directional valve that can be operated while the pump is at low RPM

Adjustable heavy duty 3 point hitch

Portage hydraulic controls

Air relief valve

Nozzle mounted above the liquid with 180° horizontal rotation and 130° vertical articulation

Adjustable opening 3 1/2 - 4'' (89 - 102 mm)

26'' (660 mm) impeller and 8'' (200 mm) discharge

**Oil cooler: standard on a 200 or 250 gearbox**

**Puissance requise**

<table>
<thead>
<tr>
<th>Power Take-Off Pumps</th>
<th>Puissance requise</th>
<th>Puissance requise</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 RPM 95 - 210 HP</td>
<td>540 RPM 70 - 100 HP</td>
<td>1000 RPM 95 - 210 HP</td>
</tr>
<tr>
<td>70 - 100 HP (52 - 74.5 kW)</td>
<td>95 - 210 HP (71 - 156.5 kW)</td>
<td></td>
</tr>
</tbody>
</table>

**2'' (51 mm)**

- 3'' to 4'' (76 to 102 mm) opening
- High velocity agitation nozzle featuring:
  - 4 x 4'' (97.6 to 102 mm) opening for maximum HP efficiency
  - Anti-slip device for maximum velocity and precision
  - 180° horizontal rotation
  - 60° vertical articulation

**Visual indicator rod (agitation/loading)**

- Optional speed reducer to easily change the direction of the nozzle

**Handle to operate the agitation nozzle vertically**

**Easy access for maintenance of the lower driveline joint**

- - 60° vertical articulation
  - - 220° horizontal rotation;
  - - Velocity and precision;
  - - Anti-swirl device for maximum HP efficiency;
  - - 3'' to 4'' (76 to 102 mm) opening
  - - High velocity agitation nozzle

**20'' (508 mm) impeller.**

- 6'' (150 mm) discharge
- 540 RPM only.

**To the lower driveline joint**

**Easier access for maintenance of the lower driveline joint**

**Double articulated #77 joint in oil bath for low maintenance**

**Portable hydraulic controls**

**Air relief valve**

**Nozzle mounted above the liquid with 180° horizontal rotation and 130° vertical articulation**

**Adjustable opening 3 1/2 - 4'' (89 - 102 mm)**

**26'' (660 mm) impeller and 8'' (200 mm) discharge**

**Abrasive resistant steel housing and bottom plate**

**Wide support for more stability in the bottom of the lagoon**
Articulated Pump Options

Adjustable Heavy-Duty 3-Point Hitch
Optional on the 18’ (5.5 m) and 21’ (6.4 m) model. Standard on the 24’ (7.32 m) model.

Wheels and Tow Bar Kit
For road travel.

Remote Control
To operate the pump and its multiple functions from inside the cab using 1 hydraulic outlet.

Drive Line in Oil Bath

Knife Kit on Propeller
To cut fibrous material and aid in the discharge of manure.
On Agi-Pompe only.

Low Pressure Discharge Elbow
Reduces the pressure of the loading pipe discharge.

Remote Grease Line Kit
To lubricate the bearing housing without removing the pump.

Abrasive Resistant Steel Housing / Bottom Plate
To pump manure containing sand.

Working Range

Performance Chart

6” Agi-Pompe
24” (610 mm) propeller and 20” (510 mm) impeller

<table>
<thead>
<tr>
<th>Ratio</th>
<th>RPM</th>
<th>24” (610 mm) Propeller</th>
<th>3” (76 mm) Nozzle</th>
<th>3½” (89 mm) Nozzle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>US gpm</td>
<td>lpm</td>
<td>US gpm</td>
</tr>
<tr>
<td>-26%</td>
<td>1000</td>
<td>26 525</td>
<td>100 408</td>
<td>1 400</td>
</tr>
<tr>
<td>-35%</td>
<td>1000</td>
<td>24 750</td>
<td>93 689</td>
<td>1 325</td>
</tr>
<tr>
<td>+26%</td>
<td>540</td>
<td>22 975</td>
<td>86 970</td>
<td>1 200</td>
</tr>
<tr>
<td>+10%</td>
<td>540</td>
<td>20 275</td>
<td>76 749</td>
<td>1 075</td>
</tr>
<tr>
<td>1 to 1</td>
<td>540</td>
<td>18 150</td>
<td>68 705</td>
<td>950</td>
</tr>
</tbody>
</table>

Performances are obtained with approx. ½” (13 mm) manure consistency.
Agi-Pompe

The Agi-Pompe, with its high quality impeller and propeller offers outstanding performance and a long life span. The Agi-Pompe is used to homogenize and transfer liquid manure containing long bedding and bottom sediments.

**Horsepower Requirements**

<table>
<thead>
<tr>
<th>Horsepower</th>
<th>540 RPM</th>
<th>1000 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>70 - 110</td>
<td>125 - 140</td>
</tr>
<tr>
<td>kW</td>
<td>52 - 82</td>
<td>93 - 104</td>
</tr>
</tbody>
</table>

**Maximum transfer consistency**

3/4" (19 mm)

**Maximum agitation consistency**

1 1/2" (38 mm)

*With optional abrasive resistant steel housing and bottom plate.

**Other Options**

**Articulated Housing**

The Articulated Housing is a valuable, time saving option. The agitation nozzle combined with the 40° vertical rotation of the articulated housing creates enough turbulence to significantly reduce the time needed to homogenize your main storage. It can be installed on the Articulated or the Lagoon Agi-Pompe.

**Articulated Agi-Pompe with the optional articulated housing**
Articulated Loading Pipe

This loading pipe is made of durable aluminum and requires no clamps or hoses. The Articulated Loading Pipe is quick and easy to set up directly from the tractor. It can be installed on lagoon and articulated pumps. The pipe measures 29’ (8.84 m) from the articulation to the discharge.

For decades we have been offering PTO pumps, a wide range of products designed to agitate and facilitate the evacuation of manure from your main manure storage pit.

Because manure characteristics are as varied as the types of storage, GEA Farm Technologies has extended the strength and power of its two main pumps, the Agi-Pompe and Super Pump, toward three distinct uses.

- The vertical pumps offer six different configurations to allow easy installation and removal from concrete pits.
- Our lagoon pumps are specifically designed to facilitate the approach, agitation and transfer of manure from lagoons.
- The far-reaching articulated pumps, secured solidly with a 3-point hitch are designed to mix and transfer manure from larger concrete pits.

GEA Farm Technologies strives to provide solutions that support proper manure management by offering products with a wide range of options to aid in manure transfer from pits, lagoons and to our spreaders.

With our knowledge of manure, we have the ability to anticipate the needs of farmers and transform that knowledge into ingenious, efficient and high quality products. GEA Farm Technologies - The right choice when it comes to manure handling.

GEA Farm Technologies cares about the quality of the environment and continuously works to implement effective environmental management systems applicable in all facets of the business.
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## Loading Pipes

### Loading Pipe on Tripod

**Key Features**
- Aluminum loading pipe measuring 25’ (7.62 m) long;
- 6” (150 mm) discharge or 8” (200 mm) discharge for faster loading and less velocity;
- Available with 20°, 70° or 90° elbows.

### Loading Pipe on Wheels

**Key Features**
- 8” (200 mm) to 10” (250 mm) loading pipe to decrease the velocity by 36% and reduce the foaming produced when using a high output pump;
- Steel loading pipe measuring 30’ (9.14 m) long;
- Hose adapter at the intake.

**Optional**
- Hydraulic height adjustment;
- Accessories basket.
We live our values.
Excellence • Passion • Integrity • Responsibility • GEAversity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 index.

Power Take-Off Pumps

Powerful PTO pumps to handle liquid manure