Simple, like opening a bottle!

The Aerial Bundle Extractor
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Since the development of the first so called, “bundle pullers” in the late 60’s, this successful product has gone through some major changes. Where the first bundle pullers were huge, air driven and slow machines, the new design is all self contained, easy to operate and slim, making it possible to pull nearly any bundle with minimal effort. Peinemann has been active in bundle pulling since the early 70’s. Being a large contractor in this field, helped us discover what was really necessary to build the best bundle puller for the job. The secret is to listen and look at the people in the field who use the machines every day and design a machine especially for them.

As the world changes around us, so does the size and weight of the bundles. We are noticing that the new plants often have larger and heavier bundles than we ever expected many years ago. Being active as a leader in the world wide market of bundle pullers keeps us informed about the new developments and helps us to change our designs according to the latest technological possibilities.

The Aerial bundle extractor is a self contained unit, which is easily lifted in position by a crane. The machine has it’s own air cooled diesel engine, which drives the hydraulic system and is operated via remote control. Depending on the weight, length and diameter of the bundle, we can offer you a custom made extractor ranging from 20T up to 125T capacity (until we are asked to go larger). The extractor is clamped to the exchanger by means of 2 hydraulic clamps at the front of the machine. Two steel slings are secured around the shell to make sure the extractor is abso-
lately fixed to the shell before we start to pull it out. With a very powerful hydraulic winch, ranging from 30T up to 100T pulling force, we can easily pull the exchanger out of the shell without putting any stress on the foundation. The pulling winch is equipped with a vertical lifting pull hook system which can hydraulically raise and lower to make sure the bundle is always in line with the shell while pulling. This feature offers huge benefits for the operators of the crane as it brings the communication with the bundle puller operator down to a minimum.

Once the bundle is pulled out, the operator balances the extractor by moving the lifting frame forward with his remote control. When the extractor is in balance, the slings at the front will become slack and the operator can now safely disconnect the extractor from the shell and lower the extractor to the ground. Once on the ground, the balance frame can be moved backwards and the bundle moved forwards so the bundle can be lifted out without dismantling the extractor.
Description

1. Front butt plates
2. Engine compartment with Air cooled diesel engine and hydraulic pump/valves
3. Hydraulic winch with 2 hydraulic motors and 4 gear wheels
4. Vertical lifting “pull hook” covered with heavy duty plastic
5. Pulling anchors for initial break of the bundle with slings
6. 2 Front clamps

7. Balance cylinder connected to lifting frame to balance the extractor
8. Main frame
9. Sling cylinders to attach the extractor to the shell flange
10. V-blocks to support the bundle
11. Lifting frame
12. Balance plate with attachments for lifting frame
Initial break of bundle

Disconnect pulling slings and move pull hook behind tube sheet

Position extractor on the ground and move lifting frame backwards to remove bundle

When slings are loose, disconnect and remove extractor

Simple, like opening a bottle!
In 15 minutes most bundles are free

Most bundles can be removed within 15 minutes with our extractors. Of course, they can be put back in the shell, using the same machine.

Peinemann offers the following standard bundle extractors

1. **25T 6100 x 1600E** Our smallest extractor, capable of handling bundles up to 7 meter length, 1.6m diameter* and bundle weight capacity of 25T. This is an extractor which is perfectly suitable for the confined areas thanks to its dimensions and the low own weight of approx 5T.

2. **45T 7000 x 2000EL** One of our most popular extractors. It can handle bundles up to 8M in length and 2 meter diameter*. As a larger extractor it can also handle the smaller bundles it gives you added flexibility. A powerful winch with dual hydraulic motors will generate a continuous pulling force of 60T. Thanks to the dual motor set up the system works at a max of 190 Bar. This in turn will contribute to a much longer life of the extractor.

3. **45T 8000 x 2000EL** Same capacities and suitable for bundles up to 9m in length.

4. **45T 6100 x 2000ELS** Same capacities but with the advantages of rear extension. This latest model will allow for an increase in flexibility as it can be made compact for the confined areas and can be made longer for bundles up to 9.1 meter.
5. **60T 8000 x 2000ES** One of our most versatile extractors thanks to the front and rear extensions. This model allows you to pull bundles up to 9m in length, but has the flexibility to be extended for 12 meter bundles when needed. This rear extension will also allow you to enter much deeper into (super) structures.

6. **80T 9000 x 2750ES** Similar versatility as our other ES models but with a higher capacity and longer length.

7. **100T plus models** As plants become larger, the exchangers grow with them. We have made custom exchangers of 100T plus models to accommodate specific projects. Within the 100T plus range the model: **100T 9500x3000** would be most common. This extractor is capable of bundles weighing 100T with a diameter of 3 meter* and length of 10 meter.

* different sizes of lifting frames are available with all extractors
Technical specifications

<table>
<thead>
<tr>
<th>Extractor model</th>
<th>25T</th>
<th>45T</th>
<th>45T</th>
<th>45T</th>
<th>60T</th>
<th>80T</th>
<th>125T</th>
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<tbody>
<tr>
<td>Max. bundle weight, kg</td>
<td>25000</td>
<td>45000</td>
<td>45000</td>
<td>45000</td>
<td>60000</td>
<td>80000</td>
<td>100000-125000</td>
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<td>Max. bundle length for extractor without extensions, mm</td>
<td>6100</td>
<td>7000</td>
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<td>9000</td>
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<td>Max. bundle length for extractor with front extension, mm</td>
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<td>Max. bundle length for extractor with both front and rear extensions, mm</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>9100*</td>
<td>11000*</td>
<td>12000*</td>
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<td>Length of the extractor with both front and rear extensions attached, mm</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>12000**</td>
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<td>Max. bundle diameter with standard lifting frame, mm</td>
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<td>2000</td>
<td>2000</td>
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<td>Other size lifting frames which are available</td>
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<td>2500</td>
<td>3000</td>
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<td>3000</td>
<td>2750</td>
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<td>Width of lifting frame in operational position, mm</td>
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<td>2450</td>
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<td>Width of main frame, mm</td>
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<tr>
<td>Height of extractor in operational position, mm. Depending on the size lifting frame</td>
<td>(1600 mm)</td>
<td>(2000 mm)</td>
<td>(2000 mm)</td>
<td>(2000 mm)</td>
<td>(2000 mm)</td>
<td>(2750 mm)</td>
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<tr>
<td>Operational weight, kg</td>
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<td>8900</td>
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<td>30</td>
<td>60</td>
<td>60</td>
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<td>53T Combi</td>
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<td>No</td>
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</tbody>
</table>

* with 2 meter rear extension pieces
** with 3 meter rear extension pieces

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Peinemann Equipment

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See also
www.peinemannequipment.com

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Peinemann Equipment iPhone App
Available on the App Store