POWERMASTER

AERIAL BUNDLE EXTRACTOR

Tools for every conceivable need.....

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PRODUCT PROFILE

THE TUBE BUNDLE EXTRACTOR

The **POWERMASTER** Aerial Bundle Extractor is an advanced, self-contained system designed for efficient and effortless tube bundle extraction. Engineered for precision, it is easily lifted by a crane and powered by a high-performance diesel engine that drives its hydraulic system. The unit is controlled via a wired or wireless remote, ensuring seamless operation with maximum safety.

Equipped with a hydraulic winch, featuring dual hydraulic motors and a gear-driven system, it delivers exceptionally smooth and controlled movement. The head prism is vertically adjustable, allowing for faster extraction while enhancing operator control and efficiency.

Manufactured using state-of-the-art machining centers, the **POWERMASTER** Aerial Bundle Extractor ensures:

- High precision with zero defects
- Rugged construction for durability in demanding industrial environments
- Enhanced safety through remote operation
- Optimized performance with advanced hydraulic technology

Innovating the Future of Bundle Extraction

Since the introduction of the first "Bundle Pullers" in the late 1960s, extraction technology has evolved significantly. What was once large, air-driven, and slow has transformed into a compact, high-speed, and self-contained system. The **POWERMASTER** Aerial Bundle Extractor embodies this evolution designed to pull nearly any bundle effortlessly and efficiently.

At **POWERMASTER**, we continuously invest in cutting-edge technology to deliver innovation, flexibility, and unmatched performance. Our commitment to excellence ensures rapid deliveries, superior reliability, and total customer satisfaction.

Plants

A-660, T.T.C. Indl. Area, M.I.D.C, Mahape-Turbhe Road, Khairne, Navi Mumbai - 400 705, INDIA.	W-224, T.T.C. Indl. Area, M.I.D.C, Thane-Belapur Road, Khairne, Navi Mumbai - 400 705, INDIA.	A-87, T.T.C. Indl. Area, M.I.D.C, Thane-BelapurRoad, Khairne, Navi Mumbai - 400 705,INDIA.

Global Branch Offices

· Syosset, NY (USA) · Doha (Qatar) · Schmallenberg (Germany) · Aberdeen (UK)
· Moscow (Russia) · Gauteng Province (South Africa) · Santa Fe (Argentina)

Distribution available in over 110 countries worldwide.

AERIAL BUNDLE EXTRACTOR

BUNDLE CAPACITY 25 TON TO 125 TON

As the world changes, so do the successful organizations could with sufficient solution. We have been fortunate to keep up with these new developments and have included improved increased the Aerial Bundle Extractors. we have kept in mind critical criteria and design features in making the Aerial Bundle Extractors as reliable as possible for work in both the coldest and hottest climates. We have added new design features for better operational control of systems.

Key Features

1. Our Aerial Bundle Extractor is a self-contained unit which is easily lifted by a crane. It has adiesel engine, which drives the hydraulic system and is operated via a wired or wireless remote.

2. 45T and higher models comes with dual motors. This contributes to a higher pulling force of 60T at a relatively low pressure of 190 Bar. The dual hydraulic motor set-up also allows you to select the speed of the bundle-pulling process. There is a selection lever on the winch, which gives mean to control the speed. The working pressure is 190 Bar, and there is no need for an oil cooler in system.

3. We use large Module for the rack and pinion drives. With a 45T and above unit. This large module is deliberately chosen as it is robust and over designed for the work and weights encountered. Again this is done intentionally to make the Aerial Bundle Extractor highly reliable.

4. Removable V-Blocks gives more flexibility when extracting and inserting bundles. You need to be able to remove these occasionally as a flange, or another obstacle might be in the way.

5. All models are equipped with rear extension pieces, giving the operator more flexibility. You can keep the Aerial Bundle Extractor compact for confined areas or make it longer for the bundles with more length. The rear extension pieces are easily fitted, and the relevant hydraulic hoses and energy chains are compatible for this.

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6. Our standard scope of supply includes all the relevant wire ropes and shackles.

7. The knowledge and expertise gathered are used to make the Aerial Bundle Extractors as they are

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.

Depending on the weight, length and diameter of the bundle, we can offer you a custom made extractor ranging from 25T up to 125T capacity.

The extractor is clamped to the exchanger by means of 2 hydraulic ram driven clamps at the front of the machine. Two steel slings are secured around the shell to make sure the extractor is absolutely fixed to the shell before we start to pull it out. Slings too are operated by 2 hydraulic rams.

With a very powerful hydraulic pull winch, we easily pull the exchanger out of the shell without putting any stress on the foundation. The pull winch is equipped with a vertical lifting jack system which can hydraulically raise and lower to make sure the bundle is always in line with the shell while pulling.

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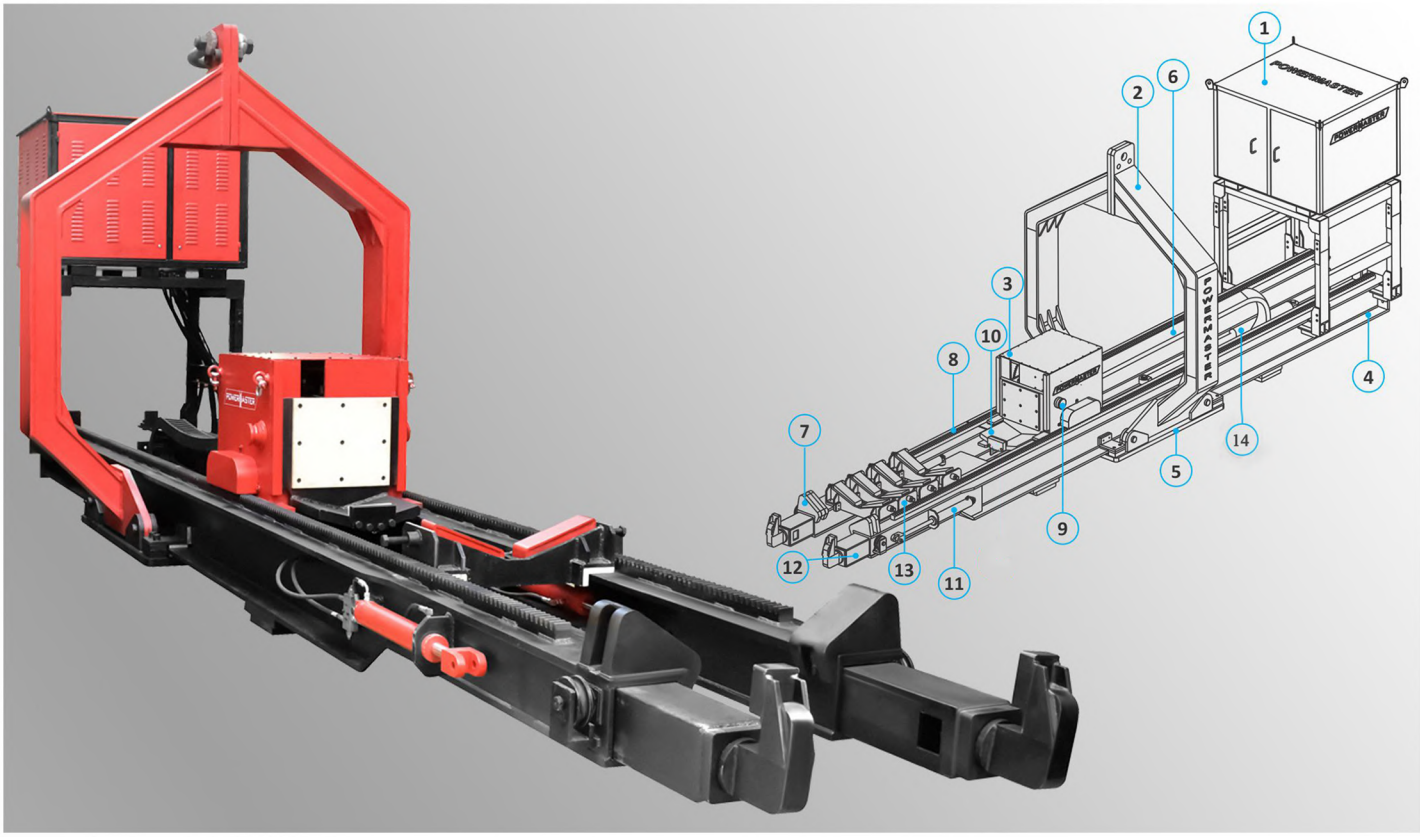
Once the bundle is pulled out, the operator balances the extractor by moving the lifting hoisting frame forward with his pendent /remote control.
When the extractor is in balance, the slings at the front will become slack and the operator can now safely disconnect the extractor from the shell and lower 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.

Features

1. Engine Compartment.

2. Hoisting Frame (Arch).

3. Winch.

4. Main Frame.

5. Balance Plate With Four Guide Plates.

6. Hose Drag Chain

7. Butt Plates.

8. Rack And Pinion.

9. Rope Guide.

10. Winch Side Plate.

11. Two Sling Cylinders.

12. Clamps And Clamp Cylinder.

13. V-blocks Trolleys.

14. Balance Cylinder.

Most bundles can be removed and put back in the shell, quickly and easily with our extractors.

POWERMASTER offers a wide range of bundle extractors

1. ABE-025T-070E One of our most popular extractors. It can handle bundles up to 7 meter in length and 16 meter diameter*. As a larger extractor it can also handle the smaller bundles, it gives you added flexibility.

2. ABE-045T-090E One of our most versatile extractors thanks to the front and rear extensions. This model allows you to pull even longer bundles. These extension will also allow you to enter much deeper into (super) structures. 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 contributes to a much longer life of the extractor. This model is also available with the 2 meter rear extension and 1 meter front extension.

3. ABE-060T-100E Similar versatility as our other models but with a higher capacity winch (80T pulling force). This model is also available with a 2 meter rear extension to pull bundles up to 13.5 meter.

4. ABE-085T-100E plus models as plants become larger, the exchangers grow with them. We have made custom exchangers of models to accommodate specific projects. It has a maximum speed of up to 1 m/min.

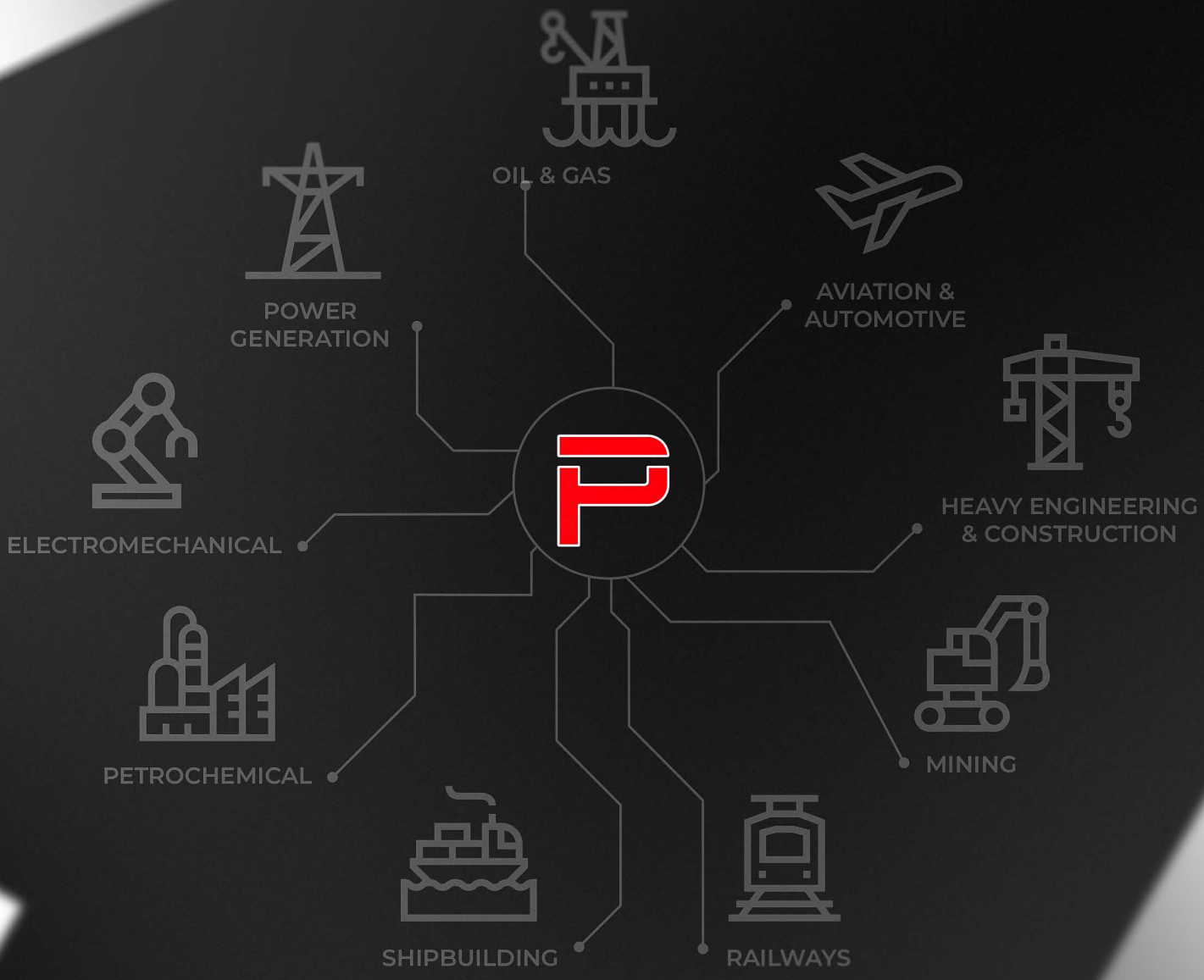
5. ABE-110T-110E is a model for heavy weight bundle to extractor up to 110T and 11.5 meter in length with working speed up to 1m/min. The standard extractor has a capacity of 125T and up to 10 meter bundle length. With 2 meter rear extension the capacity is reduced to 100T. The standard lifting frame is 3.5 meter.

Note: *Different sizes of lifting frames are available with all extractors.

TECHNICAL SPECIFICATION

		ABE-020-065E	ABE-025-070E	ABE-045-090E	ABE-060-100E	ABE-085-100E	ABE-110-110E
AERIAL BUNDLE EXTRACTOR MACHINE							
Length	mm	7300	7300/8300	9300	13000	14500	14500
Width	mm	1040	1040	1240	1240	1450	1450
Height	mm	2215	2215	2315	3315	3550	3550
Weight (without bundle arch)	kgs	4800	5200	7800	7600	9800	7800
Weight (with bundle arch)	kgs	6800	6800	10500	12500	14800	15800
Winch pull force	kgs	30000	30000	60000	60000	80000	80000
Max. Extension (front + rear if any)	mm	1000	1000	3000	3000	3000	3000
BUNDLE							
Max. Length (w/o extension if any)	mm	6000	6000/7000	8000	11500	12000	12000
Max. Bundle weight	kgs	20000	25000	45000	60000	80000	110000
Max. Diameter	mm	1000	1600	2000/3000	2000/3000	2500/3000	3000

The max. bundle length and weight per ABE model are calculated for pulling and inserting a standard bundle under ideal conditions. Factors such as a deviating center of gravity and contamination of the bundle can change the max. bundle length and/or weight per ABE model. Before pulling or inserting a bundle with the ABE, the client and/or contractor must have calculated at all times whether the ABE is capable of safely pulling or placing the bundle in question. If in doubt, Powermaster must always be contacted.



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