

The PUTZMAUS®
AIR DRIVEN Heat Exchanger Cleaning System
Quality Made in Austria



**There is only one Putzmaus®
Beware of cheap imitations**

- **Our Putzmaus®** is an Austrian designed and Austrian Made precision engineered pneumatic tube cleaning system that has been in use in Europe for more than twenty years. **Ever since it was often copied, but never equaled.**
- **The Putzmaus® cleans heat exchanger pipes and saves money.** Clinker formation can form when ash builds up in the heat exchanger tubes. This risk increases with increased flue gas temperatures especially in the bottom tubes. Just 1 mm layer of ash, condensate of tar, clinker or slag decreases the efficiency of the boiler by about **8 - 10%**. In the case of a **3 MW** heating installation, clean heat exchanger pipes will save roughly **€15,000 to €75,000** per year in fuel costs (depending on the fuel used, e.g. wood, oil, gas, etc.) and additionally operating costs and reduces downtime. Therefore, the Putzmaus® pays for itself after just a few months! The user saves instead of literally burning money.
- **The Putzmaus® tube cleaning equipment also protects metal heat exchanger tubes** from unnecessary loss of material by its soft stainless steel brushes. It does not scratch or scar giving tubes years of additional use. The Putzmaus pulses forward and backward in the tube with no spinning action. All this save on both energy and repair costs.
- **Clean heat exchanger pipes result in lower flue gas temperatures.** Moving accessory parts like stokers, moving grids, chain conveyors, feed in augers, induced draught fans, multi cyclones, filter units, etc. will be less in operation. Therefore properly cleaned heat exchanger pipes reduce the wear and tear of the moving parts of a boiler and its electricity costs and extend the shelf life of those parts.
- **Built with the highest quality of craftsmanship all 5 Putzmaus®** models carry a full year warranty. Should you encounter any difficulties with your Putzmaus® unit, a replacement loaner will be dispatched immediately and available for your use at no cost until the problem is rectified. (A shipping fee will apply after warranty expiration)

- **Easy and simple to operate** Traditional manual cleaning is seen as a time consuming and physically demanding task thus it is often neglected or put off for a later date allowing further build-up of residues in the heat exchanger. As a single person can operate the PUTZMAUS® easily and quickly the task is seen as manageable and as less formidable, this leads to more regular cleaning during the heating season, lower flue gas emissions and better overall boiler seasonal efficiency. No extra space is needed in front of the heat exchanger. Usually the cleaning of pipes or other systems requires an additional platform of several square meters, or at least a space of several meters in front of the exchanger opening. No gauges to monitor.
- **The PUTZMAUS® can operate inside a hot heat exchanger.** The compressed air cools down the PUTZMAUS®. Its high temperature hose resists temperatures of up to 400°C. This allows a reduced boiler shut down period before cleaning can commence.
- **Of course the PUTZMAUS® can also clean pipes installed vertically!!**

What makes the Putzmaus® so unique?

- The Putzmaus® travels in the pipe forward and backward and **stops fully automatically** when it reaches the operator's side
- Automatic stopping is an important part of a prerequisite to fulfil the TÜV and the European safety standards because hand- or foot controlled pipe cleaning units can drop down and cause severe injuries of the operator. The Putzmaus® however fulfils all standards.
- Three pistons operating in a sinus function keep the Putzmaus® almost vibration-free in the operator's hand. A one piston system causes much stronger vibrations and reduces its life time.
- The pistons and sleeves of the Putzmaus® are manufactured in a special workshop of highest precision and made of Titanium and are specially tempered for extreme hardness. Therefore there are no piston rings necessary. By this less air is required than by systems with piston rings. This also guarantees a higher shelf life and no rings need to be replaced.
- The Putzmaus® is equipped with a special air exhaust system blowing the air and with the air the dust in front of the Putzmaus reducing the dust on the operator's side. There are no bore holes around the cylinders through which abrasive dust particles can penetrate and affect them and the pistons.
- Last but not least: **The Putzmaus® is well priced in comparison to many other pipe cleaning systems.**

Testimonial for the Putzmaus®

BC Ferries Engineering Department

BC Ferries tried to clean the sticky carbon deposits from the 70 eight foot tubes of their Spanner Watts boiler with an electric drill powered brush, and were quite unsuccessful. Here's what they had to say after using the Putzmaus®. We made two passes with the cleaning brush to remove the heavy carbon deposits and one pass with the polishing brush to bring the tubes to appear to be brand new.



This entire process took one person less than three hours to complete. This included setup, cleaning off the tubes and clean up of the equipment. I would strongly recommend to anyone that has to clean boiler tubes to purchase one of these units as it will save labour costs, do a superior job and allow the operator to get the boiler back into service quickly.

D. Andronyk

Millennium Pacific Greenhouses Partnership

I would like to thank you for your help and assistance with the Putzmaus. It performed beyond our expectations, and without the hard labour normally required for cleaning the flue gas tubes in our boilers.

G. Garell



Windset Farms

Windset Farms has been using the Putzmaus Tube Cleaner for 2 and half years and we would highly recommend their product.

We are extremely satisfied with the machine and the way it operates as well as the level of assistance we receive from them regarding any maintenance and service issues we have.

Robert Erwin
Operations Manager

Miller Lumber Sawmill, Antique Powerland

Thank you for your generous donations of the Putzmaus Boiler Tube Cleaning Kit. Your donation is a very valuable asset and will be used extensively to clean the tubes of the boiler powering our Miller Lumber steam

powered sawmill. The Putzmaus Kit will be used regularly to clean the tubes of our 1906 Lima locomotive boiler. The boiler has a long history; it was an originally Shay locomotive, builder number 1627-3-2.

The locomotive worked logging the forests of Northwest Oregon. Our head



Vexco Inc. Hardwood Lumber Manufacturer

Good morning Mr. Koechl. We received our order with you, and we also had a chance to work with the product. It worked as a charm! It is perfect for us! I just want to make a follow up for the extra brushes. With the winter coming (unfortunately), we will have to clean the tubes more often, so we just want to make sure we will have them in stock for when we need them. We are going to change our order to 6 extra brushes instead of 3 if it is still possible.

Jessica Labonté
Adjointe Administrative / Adm. Assistant

Antique Powerland Museum

To Whom It May Concern:

I am the chief boiler operator for the Antique Powerland Museum Association's Miller Lumber Sawmill in Brooks, OR. I have several years of experience with steam boilers as a stationary plant operator and maintenance mechanic; steam locomotive fireman (branch & mainline); and as a boilermaker. The Putzmaus is the best tube cleaner I have ever used.

Our boiler is a 1906 Lima Locomotive Works, locomotive boiler. The boiler has 226 2" diameter 16 ft. long tubes. We primarily burn wood. The space between the smoke box door and tube sheet is 4 feet. It used to take 3 1/2 hours for one or two people to hand punch the boiler, and it was a workout. It would not totally clean the tubes; you could always find soot.

With the Putzmaus, tube cleaning takes one person about 1 hour. You will never regret purchasing a Putzmaus! It will clean down to the mill scale on the first and only pass needed. I have listed the reasons why you need this tool.

1. Easy set up - takes 5 minutes will work on any 90 – 100 psi. air supply.
2. Cleaner - I have never had soot or ash from the tube as the tool returns.
3. Efficient - can be used when boiler is hot; short down time, hours versus a day.
4. Quality built tool.

I wish I had a Putzmaus years ago!

David R. Long



There are already Putzmaus systems working in Ireland & UK

- At Hilltop piggery in Mitchelstown Co Cork cleaning a 120 kW Ökotherm boiler
- At Cahercalla Hospital & Hospice Co Clare cleaning a KOB boiler
- At Casey Doors Dublin
- An animal rendering plant cleaning different tallow fuelled boiler sizes up to 13 MW
- Angus Bio Fuels Forfar County Angus
- IEC International Energy Crops Drayton Shropshire
- Scale Away Tools & Equipment Coventry
- And many others



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