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Amomatic newsletter team:

Jukka Sillanpää, implementation Kimmo Arvisto, contents Casimir Kasvi, contents Jussi Länsitalo, contents Samuli Lahdenperä, contents



The opening of the new hall in the Amoburner department and the electrical department in March 2022.

EDITORIAL

The Amomatic newsletter is a new way for our company to bring out our products, new innovations, services and the latest projects to our customers. We ended up publishing the Newsletter because we want to inform our customers as openly as possible about all our company's news in the future. We have already invested heavily in communication through social media over the past year, and this newsletter is part of this line of communication, which we will continue to invest in the future. This first newsletter contains exactly what we want our customers to be aware of. The newsletter release schedule will be flexible and variable according to the other work of our company staff. It is therefore worth following Amomatic's social media channels and Amomatic's website in the future, where we will also be informing you of new issues in the Newsletter in the future.

Amomatic's year 2021 was very busy due to various projects and the year 2022 has started just as busy. There are both ongoing product development projects and projects to be delivered to customers, and our customers are also strongly involved in developing our products, and together with our customers, we are currently working on many different projects.

The world situation and the state of the environment are creating more and more pressure to develop the environmental efficiency of asphalt plants, both in terms of the fuels used and the emissions. In addition, various solutions for the reuse of recycled asphalt have long been important in Amomatic's day-to-day work.

The various solutions for low-temperature asphalt are currently very topical. All the same solutions for smoke and odor removal. This newsletter presents some of Amomatic's new solutions to these problems.

New winds are blowing strongly on the burner manufacturing side of the Amomatic. At the beginning of the year, we received new facilities for burner manufacturing in 2022, which will enable more efficient burner manufacturing at our Paimio plant. Biofuels are playing an increasingly important role in burner manufacturing. The use of various bio-oils and solid biomaterial fuels to heat the asphalt plant dryers is clearly a future direction and Amomatic has invested a lot of resources in this direction. In 2022, we will install many TOP bio-oil plants around the Nordic countries. TOP bio-oil is an aggressive pine oil based product, which is fairly new in asphalt production. In addition, we are developing a solid biomaterial burner in a test environment at our Paimio premises.

Retrofit installations have also employed us tremendously over the last two years. The increasing use of recycled asphalt pavement in part of the asphalt mix production has increased the demand for recycled asphalt processing equipment to be installed in old asphalt plants.

On the product development side, we have also developed a completely new range of high tower asphalt plant, which provides more variation to meet the needs of our customers. By the way, Amomatic's modular asphalt plant range is already very extensive, and the basic model of asphalt plant drives itself, with 15,000 different variations, adapts very flexibly to the needs of customers.

Amomatic Newsletter team

WARM MIX ASPHALT SOLUTIONS

Introduction of the LTA (Low Temperature Asphalt) drum:

Amomatic has developed a system called LTA drum because there is currently a high demand of RAP (Reclaimed Asphalt Pavement) usage in all asphalt plants. It has been created with co-operation of a significant customer. High target was to create the system that is having all the benefits of previous systems but has more advantages without making compromises with the final product quality.

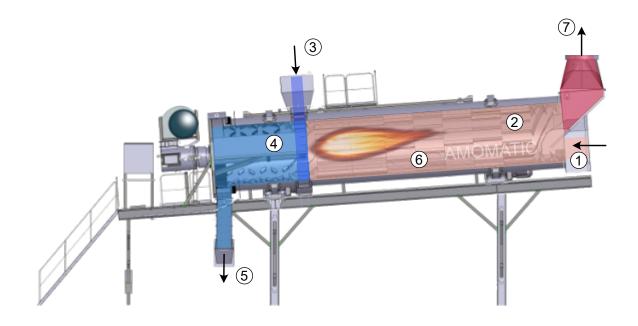
You can choose whether you use LTA drum for traditional HMA (Hot Mix Asphalt) or for LTA

production. It can also replace the traditional central feeding system.

Summarising the benefits:

- 1. Fuel usage decrease
- Good quality end product with lower temperature.
- 2. Less fumes and odour
- Because in the LTA drum the flame does not affect the RAP material directly the bitumen is not ageing or the possibility to burning is minimized.
- 3. LTA production is easier to keep in balance and this causes less maintenance needs
- It is possible to have good balance between aggregate temperature and exhaust gases. Too low exhaust gas temperature causes moisture problems in filter and this is meaning more maintenance needs.
- Having normal production adjustment for virgin material gives the possibility to keep the exhaust gas temperature high enough.
- Adding cold RAP or virgin material using central feeding after the flame, you have only one more parameter to adjust.
- the final product temperature drops down faster and you can achieve the LTA production temperatures more safely.
- 4. Small investment, high RAP content
- When using both LTA drum and cold RAP feeding system directly into mixer is a perfect combination for plants having many customers and need for flexible production.

AMOMATIC LTA DRUM



- 1. Cold virgin aggregates inlet
- 2. Drying of aggregates
- 3. Cold RAP material inlet
- 4. Mixing of virgin material with the RAP material
- 5. Dried aggregates and RAP material mix outlet to elevator
- 6. Flame not in direct contact with the RAP material --> Indindirect heating
- 7. Flue gases outlet to filter



Introduction of the AMOFOAM-system

TAKE FULL ADVANTAGE OF WARM MIX ASPHALT

AmoFoam is Amomatic's solution for producing WMA/LTA asphalt mixes. It enables manufacturing in significantly lower temperatures than the traditional hot mixing (HMA). The advantages of the method range from energy savings and reduced emissions to increasing the lifespan of the asphalt plant.



WATER AS THE KEY ELEMENT

Our WMA/LTA technique reduces the temperature in asphalt mixing and paving by injecting water at high pressure to the bitumen.

This produces bitumen foam with reduced viscosity and improved aggregate coating characteristics. The process enables both lower mixing and paving temperatures.



The AmoFoam-system can be retrofitted to existing asphalt plants.

This makes it an ideal solution for all manufacturers who wish to modernise their plants, thus making them more cost-efficient and ecological. AmoFoam can also be easily integrated to AmoControl or any other control systems.





BENEFITS OF AMOFOAM

- » Energy and cost efficiency due to reduced need for heating
- » Lower emissions and reduced fumes and aerosols during paving
- » Longer lifespan for asphalt plant
- » Easier compression and longer treatability in paving
- » Extended paving season in cold climates

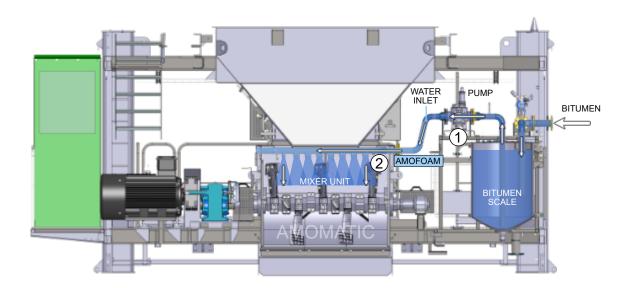








The AmoFoam principle and retrofits:



AmoFoam unit exist in all Amomatic asphalt plants, but can also be retrofitted to old plants.

Retrofitting usually requires Amomatic technician visiting old plant to check what changes there are needed, but here is the basic principle visualized.

Bitumen is foamed during it is transferred from bitumen scale to the mixer. This requires bitumen pump (number 1) after the scale. If this pump does not exist, it can be added later to the system. Water is sprayed to this same line using water pump. Water pump is usually located to the ground level for easy access. Amount of water is controlled using frequency converter.

All pumps are controlled using AmoControl but existing control system can also be used. There is a possibility to add own control system for AmoFoam also.

Inside mixer unit there is a bitumen ramp with nozzles (number 2), this ramp has to be suitable for AmoFoam and if that does not exist in old plant or it is not usable with AmoFoam, it can be changed as well.

Making retrofit assembly usually needs some design work, but so far all customer requests have been fulfilled.

Contact Amomatic sales personnel for more information

AMOFOAM AND LTA DRUM USAGE BENEFITS AND DISADVANTAGES

Basic plant with AmoFoam and LTA drum

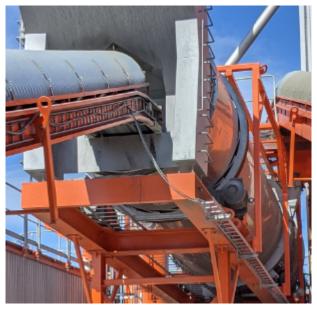
Benefits:

- Manufacturing WMA using Foaming is possible
- Energy savings
- Possibility to use RAP material 40% of asphalt mix
- RAP material does not directly touch the burner flame because RAP material is indirectly heated with warm virgin stones
- No "blue smoke" problem and zero odors
- Cheaper solution than parallel drum
- Possibility to use LTA drum as normal drum
- No contamination in bag house filter because of temperature stays inside drum in normal level

Disadvantages:

- Equipment cost
- LTA drum placement is higher than normal drying drum
- Since mixing cold and warm material needs more space LTA drum is slighty longer than normal drying drum





AMOBURNER

Amoburners are a powerful answer for the needs of both asphalt plants and other industrial applications. With a power range of 3 to 24 MW and a variety of different fuel options, they are the choice for manufacturers all over the world.



KEY FEATURES



- » Power range 3-24 MW
- » All burners are CE-approved
- » Fuel options: oil, gas (LPGand LNG), biofuels
- » Automation with AmoBurner control system
- » Installation, maintenance and spare parts services available



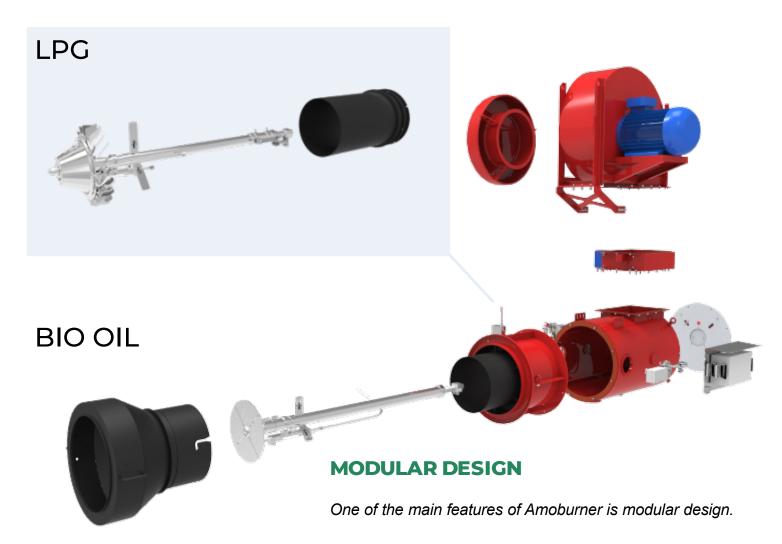






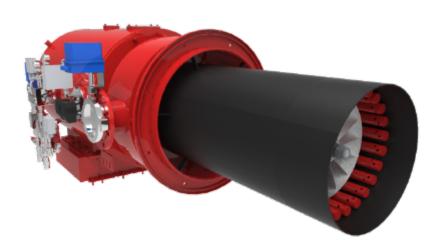


MODULARITY

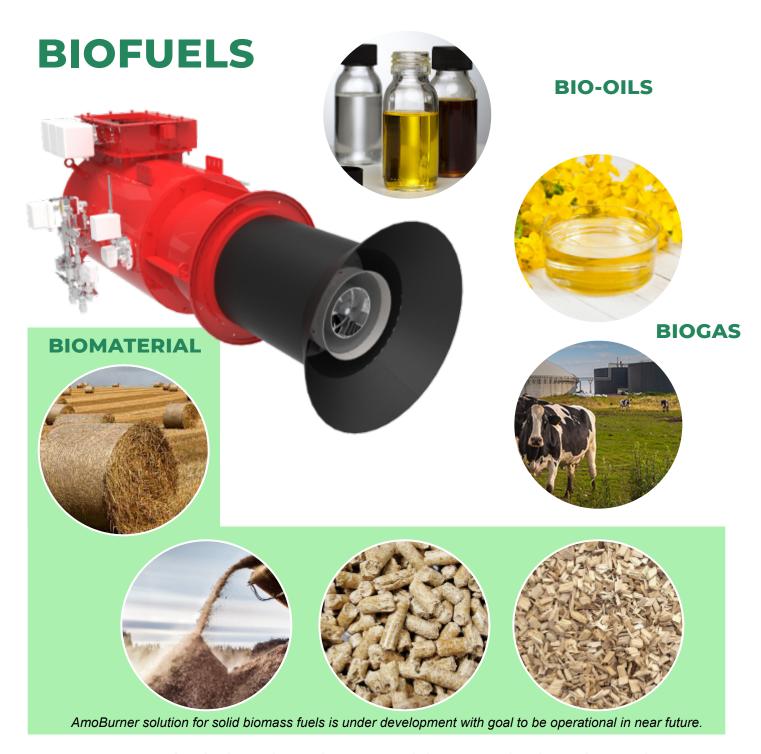


Modularity will enable Amoburner to be easily modified to fulfill the needs of our customers. For example, we can easily modify a gas burner to become an oil burner. Furthermore, this type of design allows fast assembly and delivery.





Introduction of the AMOMATIC biofuel alternatives



RENEWABLE CHOICE FOR AS-PHALT MANUFACTURING

Using biofuels in your asphalt plant's burners benefits you cost-wise and reduces the carbon footprint of manufacturing.

With AmoBurner renewable biofuels can be used making your production more sustainable and future proofed. Ask for fuel tanks and fuel transportation systems from Amomatic.

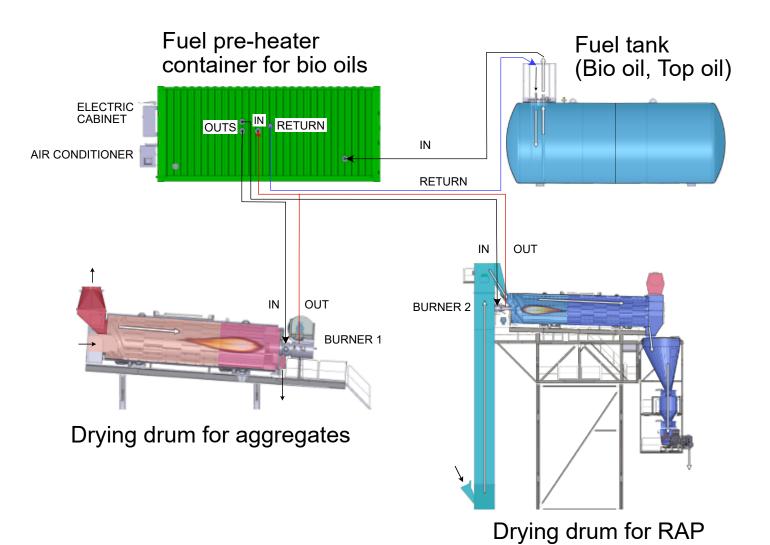
CONTINUOUS RESEARCH

Amomatic works with industry leading experts in providing the most efficient biofuel solutions for our customers.

Our research aims to improve our biofuel solutions for our burners as well as our asphalt plants.

With these improvements we aim to achieve optimal energy balance as well as sustainable social, economic and environmental development.

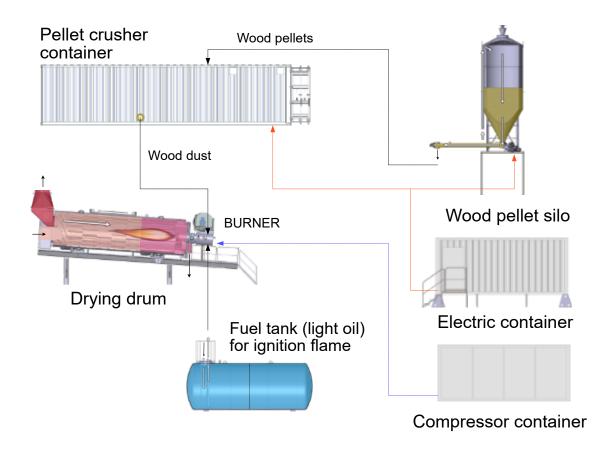
AMOMATIC BIO OIL SOLUTION PRINCIPLE







AMOMATIC BIO MATERIAL SOLUTION PRINCIPLE







We are developing a solid biomaterial burner in a test environment at our Paimio premises. The burner is currently in the third prototype stage. Burner tests have been performed during the spring of 2022 and will be continued during the summer of 2022. Follow our communications in the future if you want to know about the official release of the product.



Introduction of the AMOMATIC RAP solutions

ENVIRONMENTAL AND COST-EFFICIENT

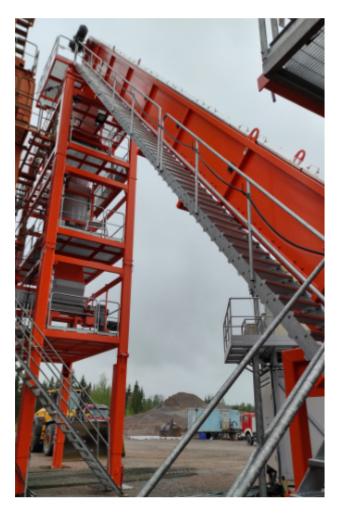
Amomatic's asphalt recycling equipment is designed to benefit both the manufacturer and the environment.

Our systems are easy to transport and can be incorporated effortlessly into existing plants. We also provide the manufacturer with the tools for rejuvenating recycled asphalt.

KEY BENEFITS

- » Saving natural resources
- » Cost-efficient manufacturing
- » Reduced carbon emissions
- » Lightening the load of landfills







AMOMATIC RAP METHODS

Reclaimed Asphalt Pavement (RAP)









Reclaimed asphalt pavement (RAP) is the term given to removed and/or reprocessed pavement materials containing asphalt and aggregates. These materials are generated when asphalt pavements are removed for reconstruction, resurfacing, or to obtain access to buried utilities. When properly crushed and screened, RAP consists of high-quality, well-graded aggregates coated by asphalt cement.

RECYCLING RING METHOD

Amomatic's solution for using reclaimed asphalt with a recycling ring works by adding the used roadbed to the aggregates drying drum via special equipment.

This method makes it possible to use 10% of recycled material via screen and up to 30% via by-pass without screening the material. The system is a cost-efficient choice for customers who need a system that is both highly transportable and easily installed.



THE PROCESS IN A NUTSHELL

Reclaimed asphalt goes into the drying drum via the recycling ring. It's then gently heated avoiding damage to the RAP binder. The reclined asphalt mixes in the drum with the virgin incgredients. After this, the heated material goes from the drying drum to the mixing tower via a hot elevator.





WHAT'S INCLUDED IN THE SYSTEM

- » Hopper with a variable speed feeder
- » Conveyorbelt with a belt scale
- » Recycling ring for the drying drum
- » Electrical cabin
- » AmoControl asphalt plant control system







REAP THE BENEFITS OF MODULARITY

Amomatic's driving design philosophy can also be seen in our recycling equipment.

The modular construction of our system allows for a smooth transportation and makes it easy to incorporate into an existing asphalt plant.

PARALLEL DRUM SYSTEM

Amomatic's parallel drum system works by heating the recycled asphalt in a separate drum, thus allowing you to control the process very precisely.

This makes it possible for you to use more than 60% of reclaimed asphalt in the mixture. The system is an excellent choice for customers who deal with large amounts of materials taken from the old roadbed.



WALKTHROUGH OF THE PROCESS

Recycled asphalt is heated in a parallel drum while the exhaust gases are used for the heating of the main drum. Heated material goes through the buffer silo to a scale, continuing its way via a screw conveyor to the mixer. In the scale, the required amount of reclaimed asphalt is weighted to each batch. Virgin material can be screened and weighted separately to the mixer.





WHAT'S INCLUDED IN THE SYSTEM

- » Hopper with a variable speed feeder
- » Conveyor belt
- » Elevator
- » Frequency inverter controlled RAP-drying drum
- » Buffer silo
- » Scale
- » Screw conveyor to the mixer
- » Electric heaters for the buffer silo, scale and screw conveyor
- » AmoControl asphalt plant control system

REAP THE BENEFITS OF MODULARITY

Amomatic's driving design philosophy can also be seen in our recycling equipment.

The modular construction of our system allows for a smooth transportation and makes it easy to incorporate into an existing asphalt plant of any make.





COLD RECYCLING

Adding RAP (Reclaimed Asphalt Pavement) into the mixer without preheating is one way of recycling asphalt. It is an easy solution for customers that don't use large amounts of reclaimed asphalt.

IDEAL FOR MODERATE LEVELS OF RECYCLING

The system works by first weighing cold reclaimed asphalt from its hopper and then dosing it straight into the mixer via a conveyorbelt.

Amomatic's asphalt recycling equipment for a cold addition into the mixer is recommended for manufacturers, that rarely use reclaimed roadbed in their work. With this solution, future asphalt mixes can include up to 20-25% RAP material.



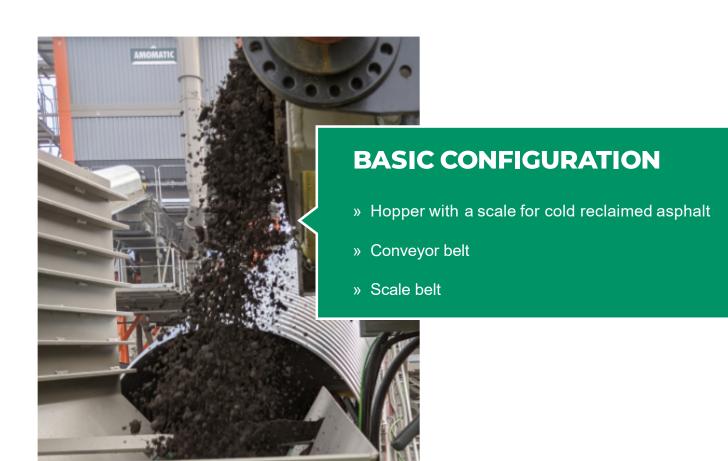




EFFORTLESS ADDITION TO AN EXISTING PLANT

The modular construction of our recycling systems makes them easy to transport and incorporate into existing asphalt plants.

Many features can be also customised according to your needs.





SPECIAL RECYCLING EQUIPMENT

Amomatic's special recycling equipment is a system customised to your exact needs. We offer a wide variety of modules, mobility solutions and digital technologies for you to choose from. Our engineers are happy to help you in the design of your unique recycling equipment. Therefore, you can be absolutely sure that all your requirements are met without compromises.



OPTIONS FOR EVERY NEED

Our techniques for using old roadbed in the producing of asphalt include both ring method recycling and parallel drum systems.

We are able to combine these technologies for a truly one of a kind system. Possibilities in customisation also include e.g. increased mobility of the recycling equipment.

MODULARITY AND MOBILITY

The modular construction of our special recycling equipment allows for a smooth transportation and makes them easy to incorporate into an existing asphalt plant.

Seamlessly integrated digital control and monitoring systems are also available.





TAILORED FOR YOU

- » Modules selected according to your needs
- » RCfilling directly to the mixer
- » Mobile RCequipment
- » Digital control and monitoring systems







Introduction of the AMOMATIC retrofit projects

AMOMATIC RETROFITS

Amomatic main business is manufacturing and selling new asphalt plants.

While making new asphalt plants as a primary target Amomatic has done many retrofit projects too.

2019 34 projects

2020 46 projects

2021 38 projects

Until March 2022 38 projects

Retrofit projects are larger projects than normal spare part deliveries and usually include design and installation help.



LTA-DRUM

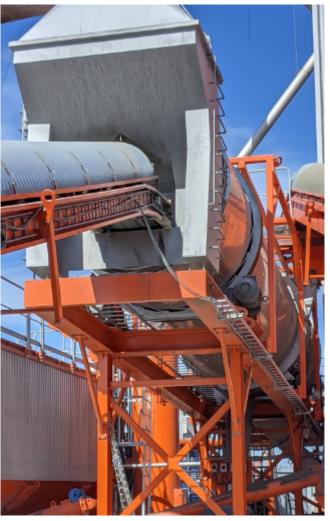
Project description: Replacing old drying drum with new LTA-drum

Customer: PEAB

Location: Hämeenlinna, Finland







The customer had problems with a normal recycling ring drum dryer. Odor nuisance caused problems in the environment. The LTA drum solved the problem and the customer is now also able to drive more recycled asphalt through the process than before.

GL DRUM AND NEW TOWER FOR RAP MATERIAL

Project description: Adding new RAP drying drum. Own tower for RAP material. Slag conveyor from new drum to tower.

Customer: PEAB

Location: Jyväskylä, Finland







The customer needed RAP drum dryer to the old asphalt station. They wanted to the drum to be on the ground level to facilitate maintenance. Amomatic designed a drag chain conveyor and a separate recycled asphalt tower next to the actual tower of the asphalt plant. The processing capacity of recycled asphalt in this solution is 150 tons per hour. The device was later upgraded for the storage silo to maximize capacity. Amomatic now sells a similar solution to other customers under the name GL (ground level) RAP drying drum.

NEW HOT STORAGES

Project description: Adding new Hot Storages to old Amomatic mobile plant

Customer: Colas Iceland

Location: Akureyri







The customer wanted to upgrade the old Amomatic mobile asphalt plant to a larger hot storage. Amomatic manufactured a rectangular hot storage with two silos, which can be upgraded later with two additional silos if necessary.

NEW ADDITIONAL HOT STORAGES

Project description: Adding more Hot Storages to two year old Amomatic Semi-Mobile 160 plant.

Customer: Malbikstodin Iceland

Location: Reykjavik, Island









The customer wanted to upgrade the hot storage with two additional silos. Amomatic manufactured a solution that used the old part of the hot storage as part of a new larger entity.

RECYCLED GLASS DRYING DRUM

Project description: Adding new drying drum system for class recycling factory.

Customer: Uusioaines Oy Location: Forssa, Finland









The customer needed a new glass drying drum as well as a cold feeder and belt conveyor for the drum. Amomatic manufactured the equipment according to the customer's wishes and also made control software for the cold feeder, which can be controlled directly from the front loader cab.

NEW HOT STORAGES

Project description: Complete replacement of old Hot Storages for higher capacity.

Customer: Peab Sweden Location: Lekhyttan, Sweden









The customer's hot storage was exhausted, so they needed a new one. The rectangular silos were replaced with round silos which had scaling possibilities. This will allow the customer to better monitor the filling of the silos.

RAP DRUM (RC-120)

Project description: New RAP drum.

Customer: GRK Road Oy

Location: Nurmijärvi, Finland







The customer wanted to upgrade their asphalt plant so that the export of recycled asphalt directly to the mixer would be replaced by a separate recycled asphalt drum dryer. In this way, the use of recycled asphalt in the process is maximized.

MOBILE RAP-DRUM (RC-80)

Project description: New mobile RAP drum.

Customer: Peab Sweden

Location: Vålberg and Uddevalla, Sweden









Some years ago the customer wanted an easy-to-move, separate recycled asphalt drying drum. From the beginning, Amomatic designed the solution using Amomatic's own container frames. The drum has a capacity of 80 tons of recycled asphalt per hour.

AMOMATIC COME TOGETHER BAUMA 2022

Welcome to the world's largest trade fair for the construction industry. You'll find Amomatic Oy at stand location FS.1213/3 on the fairgrounds map. Please ask our staff for more information!

See you in Munich!



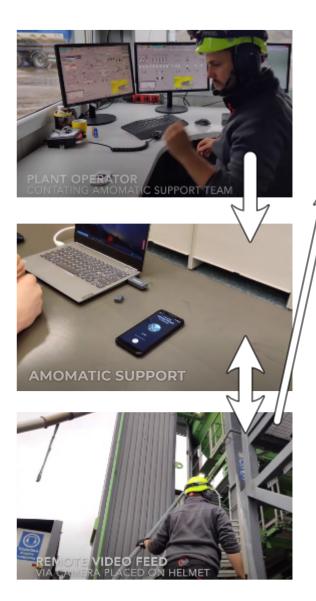


Introduction of the AMOMATIC OTTACAM

AMOMATIC OTTACAM SYSTEM

Introducing the Amomatic Ottacam, our new remote video support service. Designed to facilitate assistance to our customers, particularly in these covid 19 times. Interested in learning more about Ottacam? Please get in touch with us!

OTTACAM IN ACTION









The Amomatic Ottacam is a camera for use to send live video to the support personnel at Amomatic. The camera has its own 4G mobile connection and is worn in a front pocket, in such way that the support personnel is able to see what is in front of the mechanic.

The battery life for the camera is about 2 hours of live feed with a 4G connection, for a fully charged battery. Battery life might vary depending on conditions and connection strength. It is recommended that the camera is kept fully charged at all times when not in use.













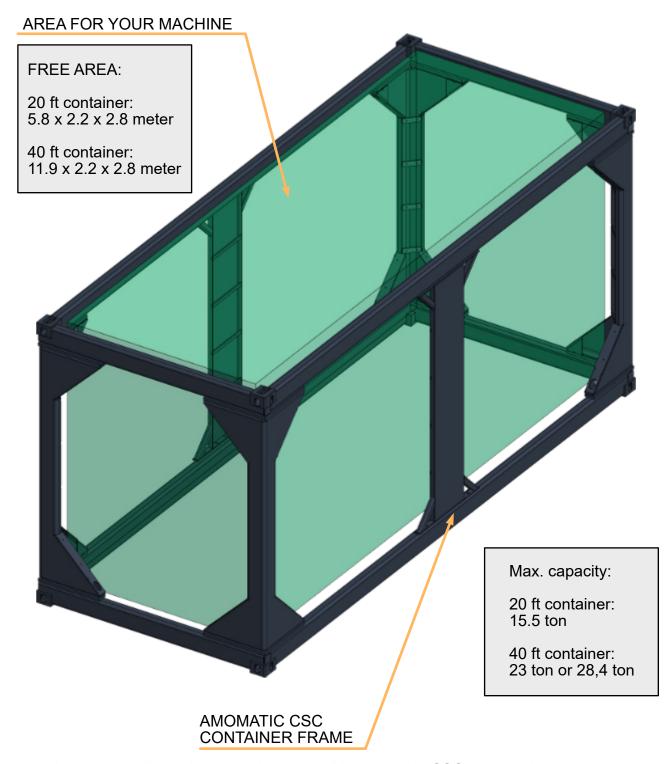






Introduction of the Amomatic container frames

AMOMATIC CONTAINER MODULES



Amomatic's container-dimensioned modules are all integrated in CSC-approved sea containers or container frames. This both reduces the logistical challenge and cost of transportation, as well as increases the ease and flexibility of setting up a container module. Amomatic has developed its own CSC-approved container frame family, in both 20-foot and 40-foot sizes. This allows our customers to install a variety of equipment inside the finished approved container body. The module can then be transported as an approved CSC container and handled with standard container handling equipment.

All devices that fit inside the container body can be installed with the attachments designed for the container frame itself, depending on the situation.

AMOMATIC CONTAINER FRAMES

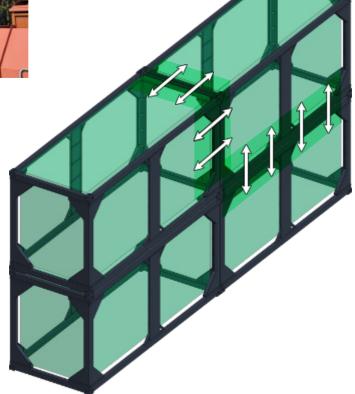




models, one 20-foot and two 40-foot versions. This second 40-foot version is specifically designed for the needs of an asphalt plant, but of course other equipment can be installed in the frame.

The Amomatic has three basic frame

Amomatic Oy also has a patent for the overlapping and parallel installation of CSC containers. In this case, the parts inside the adjacent container can move inside the other container. In this way, if necessary, a functional whole is obtained which would not otherwise be possible. This gives a lot of different possibilities to think about different seals between containers as well as associations of containers with each other.



Ask for the possibility to use the container frames in your solutions.

Interview of our spanish trainees Ismael Luzon Herreros and Miguel Ángel Portillo Villanueva.

Trainees came with the help by the Erasmus program and the first contact was made by the trainees themselves. Work started at the mid of March and was originally planned to continue until the end of May. However and because of the nice place to work, the students wanted to stay longer so the new contract was made until the end of August. From Amomatic point of view we have been very happy to get trainees from aboard and when contact was made by the trainees themselves, it was very quick decision to approve the request. Feedback from the production has been very positive and trainees have been able to do many different tasks during their time here.

Some questions from Amomatic side to the trainees:

What have you learned during your training?

Ismael (I): Currently after my training period here on Amomatic, I can say that I've learned a lot of things. First, we have been doing some electrics work, working hand to hand with the electricians from the company. That's was really nice to learn because we have never worked like this in a company. Then we have been doing a lot of metal work like assembling components and disassembling too. Of course, we have made some pieces like steel plates or big steel beams. Finally, we have learned to drive the forklift and to manage the crane.

Miguel (M): During my traineeship, I have learned different aspects from the industry and how they work. I have learned about electricity, metal works, assembly, and how to use different machines like cranes, forklift, etc. Also, I have improved my English, learning new concepts about industry and speaking more. I have learned a little bit Suomi (Finnish) with the company people.

Do you see big differences between Spain and Finland in working habits or in culture? What are the biggest differences?

(I): Of course there are many differences between both countries. The culture is different what concerns to the lifestyle. In Finland the people use to be more responsible of the job. You manage your time as you want and it is nice not to have some supervisor behind you and checking all the things that you do. Working habits here are so flexible. All the



workers know what they are doing and how to solve the problems easy because they are not limited by a supervisor. The biggest difference is the culture. Finnish people are not like Spanish people. They are so different in the way that they are a little bit shy in some circumstances. For example, when we arrived here the first days, we were surprised by them because in the coffee break, they all were silent.

(M): Yes, in both. In the working habits here you have more freedom, your supervisor trusts you, so you can do more things alone and learn more. About the culture, Finnish people are so hardworking, pleasant and responsible, but they are a little bit shyer, so it's a little bit difficult talk with them.

Was there anything you already knew before coming to Finland?

(I): That here is always cold. Also, I knew that we would have some difficulties for example with the language or with the culture. I knew that the people here in Finland are so kind and responsible. If you get around and you lose your wallet, somebody would put in on high place so when you come back you could see it.

(M): Yes, the weather. I knew Finland is a cold country, but I didn't know more about Finland. I saw some pictures and I wanted to see this place by myself.

What were the biggest surprises?

(I): We came here to the student village by train at night. We had to go to the student village office and in the middle of the walk we found a fox. That was a nice surprise. The nature here is completely implemented with the civilization. That is one of the best surprises. The other thing is of course the culture. Spanish people are so close always. So,

when we arrived, we had to get used to the new culture.

(M): Maybe the prices. When I arrived here, I saw the prices in the supermarket, buses, etc, more expensive than Spain. Also, I like so much the punctuality with the buses or trains.

Would you recommend Amomatic for training for others and why / why not?

(I): Yes. It is a company to do a training. People here are so open to help you and of course the most of the people speak English.

(M): Definitely yes. It is a good experience, you will learn a lot of things, people here are amazing, they help you if you need it, they teach you, and I think it's a perfect option to choose if you are an Erasmus student.

How do you feel of the training time, too long, just enough or too short?

(I): Too short but we learned many things.

(M): I think it was just enough. Maybe some weeks mores because when you are working here, you want to learn more because there are a lot of things in the company, so you want to

know everything about this.

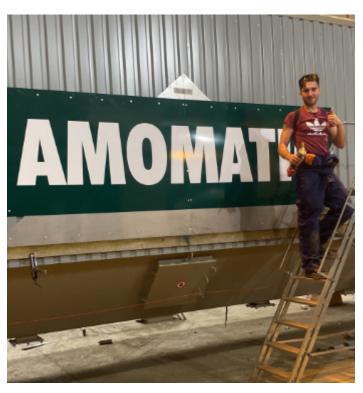
Free words and comments.

(I): I want to thank Amomatic for all that they teach us and for bringing us the possibility to work here in summer. Kiitos! (Thank you!)

(M): I would like to thank Amomatic and Jussi for trusting me and giving me the opportunity to come here. Also, I would like to thank all my co-workers and supervisors for teach me and help me. This experience has been incredible for me, I met new friends, new cultures, even travels to other countries. I think that everybody has to try to do the Erasmus program, it's a fantastic experience where you will learn about your studies, and also you will improve your English.







Introduction of the Amomatic factory





Amomatic's 6 ha factory area located in Paimio. area is Southwest Finland, 30 km from Turku in the direction of Helsinki, next to the Turku-Helsinki motorway. The location enables very flexible transports within Finland as well as transports to Finnish ports and thus abroad. Amomatic's factory area comprises two assembly halls, storage areas, a new surface protection hall and separate electrification halls for and burner production. The size of Amomatic's factory area also enables flexible storage finished modules according to customers' project schedules.



Contact Us

Amomatic's manufacturing plant, service centre and head office are in Paimio, Finland. Our opening hours are from 8 am to 4 pm Monday to Friday. During this time, you can either come for a visit or contact us by phone at +358 2 477 100.









AMOMATIC OY

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