LYBOVER

news



10
More Efficient Reclaimer Moves Up to 500 Tonnes of Urea per Hour at Yara

4
Innovative Tools for Engineering and Installation of Process Piping at Olenex

6
The Right Mix of Metals in 3 Minutes at Nyrstar

18
More Efficient Sorting: The Basis for More Sales at Henault



Set for a Future Full of Ambition and Growth

Filip and Hans Boels,
CEO's Lybover

This anniversary is a wonderful opportunity to look back at our rich history and the many milestones we have achieved. But it is also a time to look forward and set our sights on the future. We are sharpening our focus and aiming for maximum impact in sectors that excel in sustainability and innovation. We do this **driven by complexity and challenge, with the confidence that we will always excel**. That's the Lybover Way.

In the coming years, we will continue to transform our clients' visions into exciting projects. In doing so, we work **sustainably and responsibly, with respect for people.** We carefully map the handprint we leave with our clients, together with our own footprint. A first sustainability report is already in the making.

As we grow, so does the importance of safety. This applies both to our way of working and in our systems. **Safety is a top priority for us** and we continue to invest in the best tools and processes to ensure a safe and healthy working environment. With our new workplaces and facilities in Waregem, we are ready to face the future with confidence. We are convinced that, together with our talented employees and loyal customers and technology partners, we have **many more years of success and innovation** ahead of us.

In this edition, we once again take you on a journey through some of our projects. We show you how innovation and creativity enable us to provide unique solutions to complex problems. By understanding our customers' challenges and revisiting processes with a broad perspective, we manage to realise projects that really make a difference. We are proud of what we have achieved so far and look forward to the many exciting projects still ahead of us.

We are on the eve of an important year of celebration. In 2025, we will celebrate our 40th anniversary and also move into the new extension to the offices in Waregem. With 80 new workplaces and extensive meeting and auditorium facilities, we are set for a future full of ambition and growth.

LYBOVER

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4 —— METAL
Innovative Tools for Engineering and Installation of Process Piping at Olenex

6 —— BULK
The Right Mix of Metals in 3 Minutes at Nyrstar

8 —— AIR/BULK/METAL/RECYCLING
Metal Sorting Line and Air Treatment for New Shredder at RAGG

10 —— BULK
More Efficient Reclaimer Moves Up to 500 Tonnes of Urea per Hour at Yara

12 —— LYBOVER
The Power of Knowledge Sharing
Vacancies for Talent With Lybover-DNA
Cybersecurity? Check!
A Second Life for Our Hardware

14 —— BULK
Improved Dosing and Conveying System for Unilin Insulation

16 —— AIR/BULK/METAL/RECYCLING
Fritz Kuttin Increases Quality Iron Fraction and Brings Emission Below Threshold Values

18 —— AIR/BULK/METAL/RECYCLING
More Efficient Sorting: The Basis for More Sales at Henault

21 —— LYBOVER
Waregem Site Expansion Supports Growth
Building a Sustainable World, From the Inside Out
Behind the Scenes in Beringen: The Future of Manufacturing

8
Metal Sorting Line and Air Treatment for New Shredder at RAGG

AIR/BULK/METAL/RECYCLING



14
Improved Dosing and Conveying System for Unilin Insulation

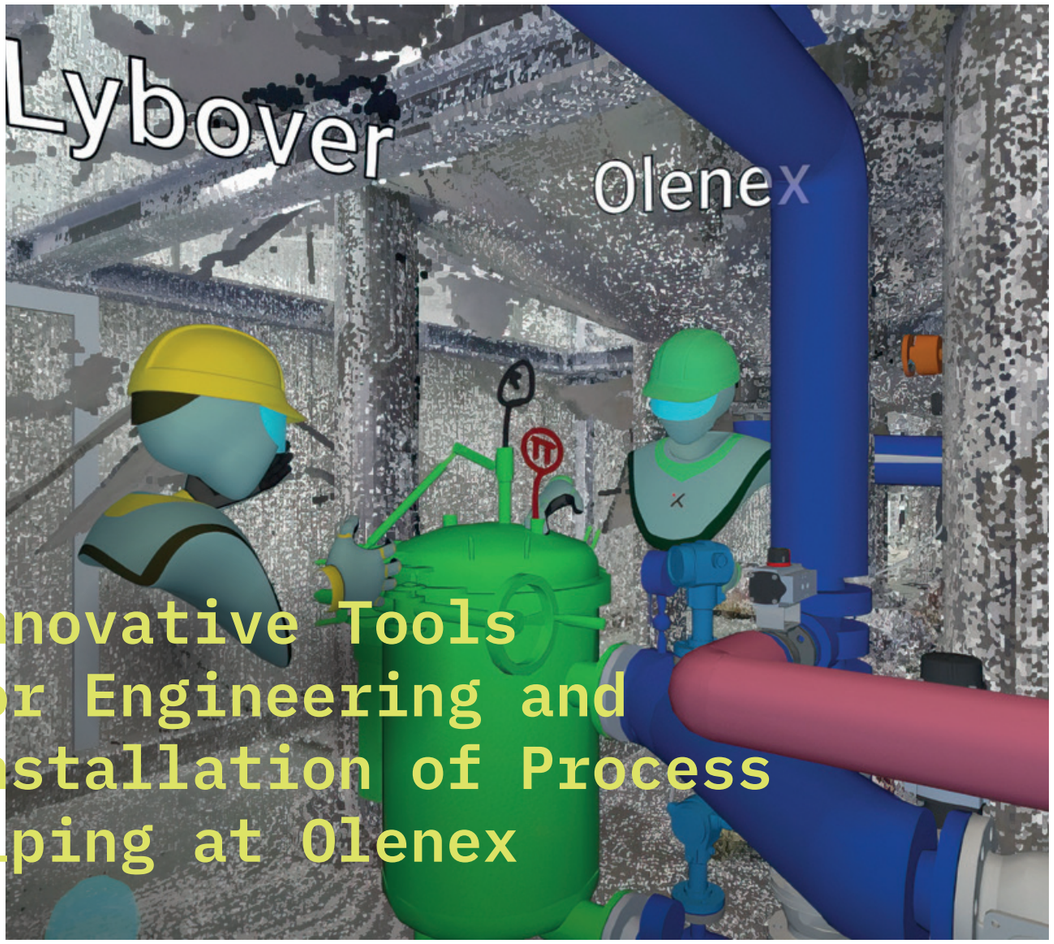
BULK



16
Fritz Kuttin Increases Quality Iron Fraction and Brings Emission Below Threshold Values

AIR/BULK/METAL/RECYCLING





Innovative Tools for Engineering and Installation of Process Piping at Olenex

> **“It is much easier to show a concept in virtual reality than to discuss it during an on-screen Teams meeting.”**
>
> **Bert Taghon,**
> Project Engineer, Lybover METAL

LYBOVER

Thanks to thorough use of digital tools during the engineering phase, Lybover smoothly delivered 2 kilometres of piping in 450 prefabricated parts for Olenex’s new packaging plant in Zaandam.

Olenex is an international company that processes vegetable oils and fats. It focuses mainly on the food industry in Europe and Switzerland. Lybover has been working for this company for a long time, as well as for parent company Archer Daniels Midland (ADM). In 2022, the request came to take care of the piping in a newly built packaging plant for speciality fats in Zaandam (Netherlands). A new construction project with very short deadlines requiring flawless coordination between all contractors on site? A challenge that Lybover is happy to take on.

METAL

> **“For this project, we were allowed to pull out pretty much all our techniques and solutions.”**
>
> **Bert Taghon,**
> Project Engineer, Lybover METAL

BIM as an Enabling Factor

To work out the entire piping installation, Lybover’s engineers were able to use Olenex’s BIM platform. The architect loaded the plan of the buiding in the platform where all subcontractors also kept their 3D models. ‘Everyone has up-to-date information this way, as modifications are immediately visible to all users,’ says Bert Taghon, Project Engineer Lybover METAL. ‘The big advantage of the BIM platform is that we avoided a lot of problems already in the pre-engineering phase. Since we had data on the building, steel building structures, utilities, the sprinkler network and cable ducts, potential conflicts, some 650 clashes in total, were immediately visible. This allowed us to address them immediately. The BIM platform also helped us determine where wall and floor openings should be provided in the precast concrete building elements even before the construction work started.’

VR: Meeting in a Virtual Factory

Based on the BIM platform and a Piping & Instrumentation Diagram, Lybover’s engineers designed a 3D model of the piping in Plant3D during the pre-engineering phase. That model was created by consulting with the customer in virtual reality. To ensure precision down to the last millimetre, Lybover made 3D scans of the new building on site, with alignment on the BIM. Thanks to all these data and models, it also became possible to walk through the new installation in VR at 1:1 scale. It also gave the client’s maintenance and HAZOP (Hazard and Operability) teams practical insight into the preliminary design.

‘We used VR a lot in this project,’ explains Bert Taghon. The discussions about the design did not take place behind a screen via Teams. No, we met in VR, in the 3D model. It is much easier to show a concept in virtual reality than to discuss it during an on-screen Teams meeting. Olenex was totally on board. So they organised internal virtual tours and consultations in the newly built plant. They used screenshots from the VR platform to clarify issues for other contractors.’

Lybover’s assembly teams were also thankful for the use of VR. Bert Taghon: ‘Before they had even set foot on the site in Zaandam, they had already virtually walked through the plant. The head mechanic also had a mobile VR set at his disposal. That way, he could immediately have the 3D model to hand in case of questions.’

Prefab for Efficiency Gains

Before assembly could begin, the positions of the supports for all equipment had to be plotted on the floor. To do this as accurately as possible, Lybover used a robotic total station. The piping components themselves also still had to reach their destination. We opted to work with prefabricated components.

Based on 3D scans of the factory, 450 prefabricated components were built in Waregem, after which they were assembled in Zaandam, again using the scans as reference. Thanks to the use of prefabricated components wherever possible, assembly was more cost-efficient.

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At a Glance

THE CHALLENGE

Design and build a piping system for food products, process water and gases.

THE PLAN

Using the client's BIM, design a 3D model of the process equipment and piping system. Engineers and the client can walk around and consult each other in VR.

THE EXECUTION

Using a total station, Lybover installs the supports for the appliances. Based on 3D scans of the new factory, the piping is prefabricated with the utmost precision at Lybover in Waregem. As a result, on-site assembly takes place safely and efficiently. All piping meets the required quality conditions and is delivered within the very strict deadline. The entire plant was subsequently FSSC 22000 certified for food safety.

BULK

The Right Mix of Metals in 3 Minutes at Nyrstar



Due to high demand for zinc alloys, Dutch company Nyrstar sought an automatic and accurate dosing system for its Balen plant where it produces tailor-made alloys. Lybover BULK acted as main contractor, keeping a teight rein. This was the only way to ensure timely delivery.

Precise Dosing of Zinc Alloy Additives

Due to increasing demand for zinc alloys, Nyrstar decided to re-commission a smelting plant at its Balen site. In addition, the company was looking for an automatic dosing system to add the metals nickel, bismuth and tin - each in different proportions.

Ticking Clock? No Problem!

John Morel, Group Production Manager at Lybover BULK: 'There were already buyers for the new zinc alloys, so there was time pressure. The engineering, the purchase of the various components from the suppliers and the actual works on site had to follow a strict timing. This is where we made the difference by having expertise across different disciplines in-house. The dosing and conveying systems were a job for Lybover BULK. Lybover INSTALLATION took care of the assembly and extension of the existing support structures.'

3 Dosing Units, 1 Partner

The dosing systems had to be placed on two levels in the existing building. Moreover, the components were not allowed to interfere with the tilting platform with the melting vessel. Thanks to a 3D scan of the space, Lybover was able to work extremely precisely. Lybover BULK presented three different dosing systems from partner EMDE Automation. 'It is an added value that we could turn to our partner for all systems,' explains Michaël De Baets, Business Development Manager at Lybover BULK.

For the tin, there is a bag dump station with weighing system into which operators pour the material. The bismuth is in bigbags that are emptied in a bigbag unloading station on weighing cells. The nickel is delivered in steel drums of 250 to 500 kg capacity. These are emptied into a storage hopper using a drum tipper. From there, a screw transfers the nickel to a smaller dosing hopper on weighing cells. Each dosing system was equipped with a customised dedusting unit. Lybover BULK chose those solutions to dose as accurately as possible. 'Since the materials have a high density, only a small volume always needs to be measured out. The exact doses and proportions depend on the specific alloy. The batch sizes range from 5 to 15 kg, but the customer requires the weighing to be accurate within a few hundred grams, Michaël De Baets clarifies.

A Feat of Ingenious Crafts-manship

Once weighed, the materials end up in vibrating pipes that lead them to the melting vessel. There, the zinc and additives are mixed. Then the entire platform tilts with the vessel to pour out the metal. So the dosing system and the vibrating chutes were not allowed to get in the way. 'That is why we designed the vibrating chutes so that they can slide to the side. That required considerable thought from experienced engineers.' says Michaël De Baets.

Constructive Cooperation

The installation had to be built in just a few weeks. The same timing applied to the implementation of the control and automation and the link with the existing systems. John Morel: 'Thanks to our coordination work and constructive cooperation with Nyrstar, we were able to deliver this project on time.'

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LYBOVER

> **"Several kilos of metal have to be weighed each time, but accurate to a few hundred grams. We succeeded in realising a suitable solution for each additive."**
>
> **Michaël De Baets,**
> Business Development Manager, Lybover BULK

At a Glance

THE CHALLENGE

Design, on-site installation and seamless integration of a turnkey dosing system for zinc alloy production, including control and automation. Accurate weighing of nickel, tin and bismuth. Flexible selection of quantities to be dosed. A complete dosing and conveying operation of no more than 3 minutes.

THE PLAN

Lybover partner EMDE Automation provided the appropriate dosing systems. A 3D scan mapped the existing environment. Based on this, each component could be planned precisely in the existing space.

THE EXECUTION

Lybover BULK coordinated the project as main contractor. Lybover INSTALLATION took care of installing the dosing units and extending the existing support structures. Thanks to a thorough project approach and constructive cooperation, the installation was delivered on time.

AIR/BULK/METAL/RECYCLING

Metal Sorting Line and Air Treatment for New Shredder at RAGG



RAGG, an Austrian scrap processor, needed a new shredder and sorting line to achieve higher purity in metal fractions and comply with current and future emission standards. Thanks to the seamless collaboration between Lybover's teams and other partners, the plant was constructed and delivered efficiently.

Wanted: Future-Proof Metal Sorting Line

In the Austrian town of Hall in Tirol, the family-run company RAGG has been operating a scrap processing plant since 1947. To prepare for the future, the current generation is investing in modernised facilities. For instance, the outdated shredding line for end-of-life vehicles and scrap metal is being replaced by a more efficient, lower-emission plant. The German company Lindemann is supplying the feed belt and shredder, while Lybover is handling the sorting line and air treatment. The non-ferrous line had to be retained.

Under One Roof

“RAGG selected Lybover because we manage everything internally,” begins Frederick Thoma, Business Unit Manager at Lybover AIR. “We analyse, design, produce or source machines through partners, and handle assembly and repairs ourselves. This holistic approach allowed us to provide a clear and complete quotation from the start, which RAGG valued greatly.”

The Added Value of Downstream Treatment

“This extensive project showcases the techniques we offer in terms of sorting and air treatment,” Frederick Thoma continues. “The focus in the scrap industry is shifting from shredders to the downstream treatment of fractions. More accurate sorting produces purer, more valuable metal fractions.”

Patented Ultrafilter

Lybover helps scrap processors meet emission standards with advanced air treatment. The Venturi wet scrubber is a primary and essential filtering step against dust and fumes, but it no longer meets the stricter European standards that are moving towards zero emissions. That is why Lybover, together with Keller Lufttechnik, developed an ultrafilter that removes PCBs, dioxins, and sticky, moist air. This patented technology ensures that RAGG is well within Tirol’s emission standards.

Sorting Techniques and Air Treatment

After the shredder, the scrap metal is led via conveyor belts to a sifter, which removes light parts. Lybover also supplied and installed Spaleck vibrating tables and Steinert magnetic drums for separating ferrous and non-ferrous metals. In addition, Lybover supplied the air technology for the sifter—with a dry filter and ducting —and integrated the dedusting of the non-ferrous plant into the new system, ensuring higher efficiency and less residual waste and dust.

Movable Container Lids

Light fractions from the sifter, such as textiles, foam, and plastics, together with the dust, are conveyed to containers via a covered conveyor belt. Lybover developed movable lids that keep the containers closed during filling. A screw system distributes the material evenly throughout the container, while sensors detect when it is full.

Minimal Downtime

Lybover conducted a 3D scan to accurately fit the new installation into the limited space, and a total station was used to precisely plot all assembly points. Time was crucial to avoid downtime. The smooth execution was due to frequent meetings between all parties involved.

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> **“Intensive communication ensured smooth cooperation and quick solutions.”**
>
> **Thierry Sabbe,**
> Teamleader Projects, Lybover AIR

At a Glance

THE CHALLENGE

RAGG was looking for a new shredder and downstream sorting line to replace the old plant. Space was limited, connection points had already been determined, and the company wanted to restart as soon as possible. They wanted a reliable partner that develops and produces its own solutions.

THE PLAN

Lybover combined expertise in air treatment, sorting techniques, bulk handling and conveyors to design a total solution, based on 3D scans of the site. Including an innovative patented ultrafilter for the shredder, RAGG is well within the applicable emission standards.

THE EXECUTION

Close consultation between all parties involved meant that they quickly found answers to all the challenges that arose - and the installation was completed smoothly.

BULK

More Efficient Reclaimer Moves Up to 500 Tonnes of Urea Per Hour at Yara



The silo for the new reclaimer received a completely new floor, access doors, LED lighting and wall cladding. The rails were also renewed after an accurate 3D measurement.

Yara, a global player in nitrogen-based fertilisers and industrial chemicals, was looking to replace an old reclaimer that collects urea in silos for further transport. Lybover BULK was able to quickly come up with a technically sound proposal for a reclaimer that works more efficiently than the old one - and build it.

New Reclaimer for More Volume

Yara is a Norwegian company that supplies nutrients for the food chain and operates worldwide. It specialises in nitrogen-based fertilisers and industrial chemicals such as AdBlue and CO^2, which is used for the bubbles in soft drinks and beer. Yara's production site in Sluiskil (NL) is the largest fertiliser plant in Europe.

From 180 to 500 Tonnes

At the site, there is a double silo into which urea granules are deposited by conveyor belts. These pellets are made in the various plants on the site. In the silos, a reclaimer runs on rails. This collects the urea pellets and carries them by elevator to the conveyor belts at the top of the silo, after which the pellets end up in the screening and unloading plant to be loaded into trucks or ships. The machine can operate in both silos. The reclaimer dated from the 1960s and was in need of replacement. Not only because of wear and tear caused by urea salts, but also because the machine no longer met current standards in terms of flow rate and energy efficiency.

'The old reclaimer moved 180 tonnes of product per hour. The new reclaimer should be able to handle a flow rate of 200 to 500 tonnes. This will allow Yara to load more urea faster with the same amount of energy,' says Tom Devriendt, Sales Engineer Projects at Lybover BULK.

> "Our quick and substantiated proposal convinced the client and was most decisive in the award process."
>
> **Tom Devriendt,**
> Sales Engineer Projects, Lybover BULK

The Power of In-House Production

Tom Devriendt: 'We designed a machine from scratch with all the necessary components, such as an intake hopper with crusher to prevent product clumping, but also the extraction belt, elevator and discharge belt. All this is on a powered chassis with associated controls. Lybover INSTALLATION ensured flawless assembly of all components.'

In the next phase, the other silo will also receive a new elevator. So eventually, instead of one reclaimer driving from one silo to the other, two reclaimers will be able to work side by side.



The old reclaimer from the 1960s needed replacing due to wear and tear, too low flow rate and energy inefficiency.

> "This type of project is an excellent example of how we work as a machine builder. First a 3D scan, then design from scratch, testing and flawless assembly."
>
> **Tom Devriendt,**
> Sales Engineer Projects, Lybover BULK

At a Glance

THE CHALLENGE

The existing reclaimer, which picked up and moved product in Yara's urea silos in Sluiskil (NL), needed replacing after decades of service. The new unit needed to handle higher flow rates and be more energy efficient.

THE PLAN

Lybover quickly came up with a substantiated proposal that convinced Yara.

THE EXECUTION

After a detailed 3D measurement of the silo, Lybover BULK built the necessary components for the new lifting unit: an intake hopper with crusher, extraction conveyor, elevator and discharge conveyor. Lybover INSTALLATION assembled the machine on site. The silo itself also received a revamp. Thanks to pleasant and constructive contacts between Lybover's project engineers and Yara's team, this project went smoothly.

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The Power of Knowledge Sharing



As a partner of numerous federations in our sector, we are only too happy to dedicate ourselves to knowledge sharing. In April, for example, we hosted a Flanders Metals Day for the members of Flanders Metals Valley at our Waregem office. And in May, Denuo invited us to the Liantis offices in Aalst to share our insights on a healthy and pleasant workplace.

The Flanders Metals Day was an ideal time for us to zoom in on the trend that companies are increasingly opting for recycled materials instead of virgin raw materials. A shift that will have a significant impact on various sectors, including manufacturing and recycling. After a tour of production, our colleagues explained how Lybover's expertise and technology can help companies meet the growing demand for high-quality recycled materials.

During Denuo's training session, together with Liantis and Zehnder Clean Air Solutions, we discussed dust and odour nuisance in the waste and recycling sector. We explained how to identify the risks and what collective and individual solutions exist.



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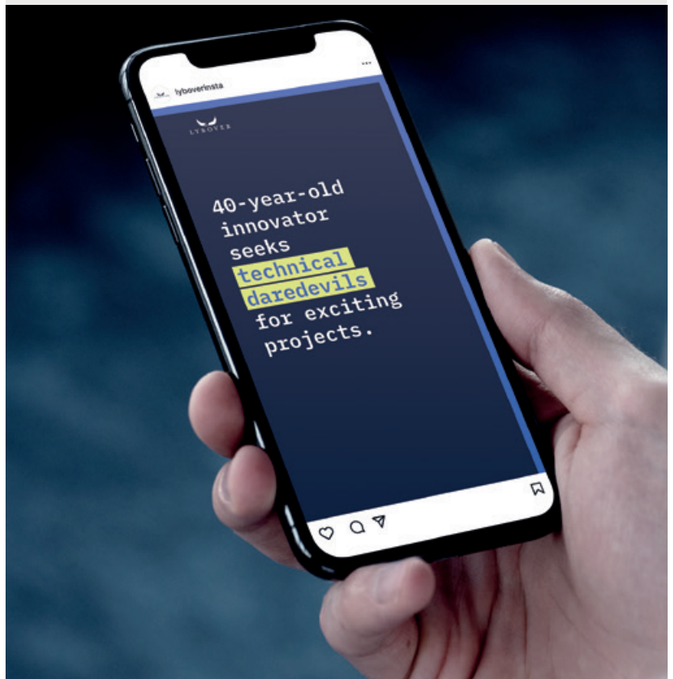
“Individuals seeking a challenge and eager to grow alongside our success story will undoubtedly find their place at Lybover.”

Filip Boels,
CEO Lybover

Vacancies for Talent With Lybover-DNA

To continue supporting our growth, we at Lybover are looking for new colleagues who fit our DNA. We currently have 30 vacancies for highly skilled professionals in sales, project management, technical design, service, after-sales, production and installation.

Check out our vacancies:



Cybersecurity? Check!

Cyber awareness is crucial for Lybover. Not only to protect our professional data, but also to ensure the integrity and continuity of our business operations. To tighten cybersecurity in Europe, the European Union introduced the ‘Network and Information Security Directive’ (NIS2). All member states, including Belgium, have to turn this directive into a ‘law’. Lybover already took additional measures to secure our systems and data.

In the transition to NIS2, we let Orbid support us. Together we mapped our maturity and drew up an action plan that we will roll out in phases. This will enable us to meet the security level ‘Important’ on time. Some of the actions we are taking: training employees in cyber awareness, updating our security protocols and investing in advanced security technologies.

A Second Life for Our Hardware

Our daily lives are digitising at lightning speed. For those who are good at keeping up, this makes many things a lot easier. But those without access to the digital world risk being excluded. The digital divide may have narrowed in recent years, but unfortunately it has also deepened.

To help close that gap, we from Lybover donate our reusable hardware to Allemaal Digitaal (= Everyone Digital). This is a project of the city of Kortrijk to bring citizens into the digital world. Our hardware is ‘wiped’ and given a second life in families and households that really need it. This project is part of our VCDO action plan.



Improved Dosing and Conveying System for Unilin Insulation

Unilin Insulation produces insulation materials for the construction industry. One of the elements needed to make insulation is polyol. A few years ago, Unilin Insulation installed a polyol reactor at its production site in Desselgem. The installation allows the company to produce customised polyols and monitor their quality more closely. Moreover, the reactor is suitable for processing waste products into new raw material. In this way, Unilin Insulation wants to produce more sustainably.

LYBOVER

BULK

> “We really immersed ourselves in the customer's working methods, paying attention to the different big bags and the bulk behaviour of the raw materials.”

Michaël De Baets,
Business Development Manager, Lybover BULK

Need for Flexible and Ergonomic Solution

Operators feed the reactor with powdered raw materials delivered in big bags. The existing installation consisted of a hopper and conveyor screw to feed the material to the reactor. Michaël De Baets, Business Development Manager at Lybover BULK, says: ‘This released a lot of dust, so operators needed extensive safety equipment. In addition, there was no system to weigh and dose the raw materials accurately. The new plant also had to be suitable for processing larger briquettes with recycled raw material, in addition to powders, in the future.’

Insight Into Product and Process

At partner EMDE Automation’s test centre, Lybover’s engineers carried out various tests to find a suitable dosing system. In consultation with EMDE and Unilin’s engineers, we arrived at a sui-table solution,’ says Wouter Tjampens, Project Engineer at Lybover BULK

Engineered Solution, Installed on Time

The complete installation and start-up of the dosing and conveying system had to be done in 2 weeks during a scheduled downtime. There was no more time. ‘Thanks to a 3D scan of the building and reactor zone, we had accurate measure-ment data to assemble our units in ad-vance and ensure a seamless connection to the reactor. Thus, the installation went ahead with a minimum of adjustment works near the reactor,’ explains Michaël De Baets. ‘This pro-ject demonstrates the added value of ‘engineered solutions’,’ adds Wouter Tjampens.

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The big bag unloading station can handle different sizes of big bags

At a Glance

THE CHALLENGE

To build an accurate dosing and conveying system for Unilin, suitable for dust-free handling of big bags of various sizes and products with a difficult bulk behaviour.

THE PLAN

In the test centre of partner EMDE, together with the client, gain insight into the processes and products in order to arrive at a suitable solution.

THE EXECUTION

Through an integrated design and 3D scanning, Lybover was able to seamlessly integrate the new components within the existing environment and keep the adaptation work to a minimum. This allowed the new installation to be installed and commissioned within the anticipated 2 weeks.

AIR/BULK/METAL/RECYCLING

Fritz Kuttin Increases Quality Iron Fraction Thanks to Improved Air Technology

“The biggest asset for Fritz Kuttin: the high efficiency of the plant. The iron at the end of the recycling line is now much purer and a more valuable raw material for the metallurgical sector.”

Frederick Thoma,
Business Unit Manager, Lybover AIR



Specialists who do not shy away from a challenging project and collaborate across departments. That is how Lybover invariably figures out and delivers successful projects. Also in Austria, where metal recycling company Fritz Kuttin wanted to improve its shredding line. Lybover provided more efficient air extraction and a better sorting sys-tem, so that Fritz Kuttin meets emis-sion standards and recovers cleaner iron, which serves as a raw material for sustainable steel production.

LYBOVER

Future-Proofing Shredder Line

Fritz Kuttin has been recycling metal scrap at its Knittelfeld site for more than 100 years. Today, the company is part of the REON Group, for which Lybover previously provided a tailor-made solution. Every day, end of life vehicles and scrap metal are poured into the shredder at Fritz Kuttin, which crushes everything. The material then enters a sifter, which removes all the light, non-metallic parts out of the waste stream. The heavy fraction is led further down the sifter to a magnetic drum. This separates the iron from the non-ferrous materials. A pivoting conveyor dumps the iron into train wagons or on site, while the non-ferrous metals are further treated and upgraded.

‘Because of the very limited layout, many design iterations were needed to arrive at a suitable solution. Everything started with a 3D scan of the site. That scan was also useful to continue designing from a distance during the corona pandemic,’ recalls Technical Designer Thijs Van de Velde. Due to the permit process, actual construction could only start in 2023.

The Right Air Treatment

The shredding process causes many diffuse emissions. Air technology is also needed for the sifter. In the original plant, there was only one air treatment system, with a cyclone and wet filter, for both processes.

‘Today, emission standards are stricter and this system is no longer sufficient,’ says Frederick Thoma, Business Unit Manager Lybover AIR. ‘We recommended separate air treatment to the customer from the beginning, with a separate cyclone and filter per installation. This is the only way to guarantee optimum under pressure to reduce diffuse emis-sions from the shredder, independent of the sifter operation. A wet filter was provided for the shredder and a dry filter for the sifter. Moreover, our solution had to be resistant to fire and explosions.’

Improved Sorting Facilities

With the existing sifter, the separation of light and heavy materials was not optimal and the iron fraction still contained many impurities. Bjorn Delagrange, Project Engineer at Lybover: ‘We proposed a Lybover sifter. This would put the conveyor belt that fed the material at a steeper angle. Together with the specialists of Lybover BULK, we found a workable solution.’ In addition to the new sifter, Lybover provided a sorting cabin in which operators manually check the iron fractions before they leave the line. Finally, another pivoting conveyor was installed to dump the clean scrap either into a train wagon or at the iron collection site.

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At a Glance

THE CHALLENGE

Fritz Kuttin wanted to upgrade its shredding line to recover higher-grade iron and reduce emissions. The new plant had to be built within a short timeframe, and on a limited, existing surface area.

THE PLAN

Lybover proposed to replace the original air treatment system with separate filter systems for the shredder and the sifter. In addition, we would replace the sifter with a higher-performance one. We started from a 3D scan to design several possible solutions and accurately incorporate all the necessary conveying systems.

THE EXECUTION

Lybover used the expertise of its various business units to deliver a total solution, in collaboration with third parties. All this resulted in a recycling line that allows Fritz Kuttin to recover much purer iron from scrap metal, while meeting imposed emission standards.

More Efficient Sorting: The Basis for More Sales at Henault

Several Lybover business units have joined forces to produce a new sorting line for French metal recycling company Henault. This ensures better separation of waste fractions and thus higher sales value.



AIR/BULK/METAL/RECYCLING



There was also a need for air treatment to reduce emissions and prevent dust.

How Do You Get More and Purer Non-Ferrous Fractions From Your Sorting Line?

The purer the fractions coming out of sorting lines, the more profit a recycler makes. Henault Recyclage also knows this. This family company, with four sites in France, specialises in recycling metals from private individuals and companies. For its Oradour-sur-Glane site, Henault was looking for new sorting lines to better separate the different non-ferrous fractions from the shredder. Fractions of plastic, wood and textiles also needed to be better recycled to reduce waste. In addition, Henault wanted to treat the shredder waste on site to reduce transport to remote sites. Lybover was introduced to Henault through Steinert, a manufacturer of sorting systems and partner of Lybover. The beginning of a challenging project that the colleagues brought to a successful conclusion thanks to their flexibility and close cooperation.

Thinking Beyond the Question

Thinking along with the customer and proposing the solution that best suits his needs and budget: that is the Lybover way. Again, this approach was at the heart of the development of the sorting plant. ‘The customer originally wanted three separate sorting lines to be installed in a newly built hall. During discussions with our engineers, it became clear to both parties that one large line would make more sense. This is because in the initial plan, bulldozers would have to transport material from one line to another. With one line, those movements are not necessary,’ Louis Schollier, Project Engineer at Lybover, elaborates. ‘The customer also wanted to reuse some existing equipment in the new line and elsewhere in the plant. These included two conveyors, two overhead magnets and an eddy current separator. These were still in good condition and so Henault avoided additional investments. So in the engineering we had to take those existing machines into account. We also needed air treatment to reduce emissions and prevent dust from flying around,’ continues Katrien Vyvey, Project Engineer at Lybover.

Detailed Scans for Precise Engineering

The sorting line would be located in a new building, next to the existing installations. The conveyor starts at an existing cyclone and under a vibrating table. Precise measurements were therefore needed to determine the position of the first belt. 3D scans were used to map both the current installations and the location of the new building. This way, Lybover's engineers immediately had the necessary measurement data at their disposal and additional trips to France were not necessary. The consultation with the customer was also able to take place smoothly via digital means.

Thinking Ahead for a Total Solution

‘Our measurements and the architect's plans made one thing clear: the available space was very tight. So it was quite a challenge to integrate all components into the building and to ensure that the installation would be accessible for maintenance work. Moreover, we wanted to provide space to expand the line with an automatic sorting machine in the future. The ergonomics of operators and energy efficient climate control in the sorting and operator cabin were a focus of attention. We translated the principle diagrams for the sorting lines and dedusting into a 3D model where we could walk around in VR. That made it possible to explain our design to the customer from a distance,’ explains Louis Schollier.

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"Thinking along with Henault and proposing the solution that best suits their needs and budget: that's the Lybover way."

Louis Scholier,
Project Engineer bij Lybover



Together with Henault, Lybover reduced the three requested sorting lines to one integrated line. For this, we called on the expertise of our various business units and external partners.

Getting Down to Business
After the construction of the production hall, the actual assembly could begin. But not before a 3D scan for verification took place, notes Louis Schollier. 'We work to the millimetre. So it is useful when we see and resolve any deviations from the plan before we start assembling.' Next, all anchoring points for the installation were plotted with a total station, allowing Lybover's mechanics to work efficiently. Louis Schollier: 'A large site like this always comes with specific challenges. There is a tight schedule for delivery of parts and assembly. At the same time, good coordination is needed with the other parties involved, such as the electrical engineers appointed by the customer. In terms of assembly and logistics, our colleagues from Lybover INSTALLATION always showed flexibility in case of unexpected delays, for example in the concrete works. Internally, cooperation between the different business units ran very smoothly thanks to good contacts and open communication. This way, we quickly responded to customer requests.'

More info?
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At a Glance

THE CHALLENGE

Henault Recyclage sought a new sorting line to more precisely separate non-ferrous metals and improve the recovery of plastic, wood, and textile fractions. In addition, Henault wanted to treat the shredder waste on site to reduce transport. Finally, some existing equipment needed to be reused.

THE PLAN

Switching to a single sorting line for efficiency gains, 3D scans were taken to ensure an accurate design. A future-oriented design was chosen, allowing for expansion and energy efficiency.

THE EXECUTION

An inspection scan of the hall before assembly started, mapped out the actual situation. A total station was used to plot the anchor points for the installation. Thanks to precise engineering, well-oiled cooperation between Lybover's business units and the flexibility of the engineers, the project was smoothly delivered.



Waregem Site Expansion Supports Growth

In May, we laid the symbolic foundation stone for the expansion of our headquarters in Waregem. This is an important milestone in our growth story. We celebrated this festive moment in the presence of then-mayor Kurt Vanryckeghem, city council members Rik Soens and Kristof Chanterie and several local residents.

From Local Player to International Authority in Engineering
With branches in Waregem, Bruges, Beringen, and sales offices in France and the UK, Lybover has established a strong international customer base. In addition to the Benelux and DACH regions, our group is increasingly receiving requests from Scandinavian countries such as Norway, Sweden, and Denmark. We continue to focus on sectors striving for a sustainable future. Thanks to our tailor-made solutions, industrial processes become more sustainable.

'We are, of course, also keeping an eye on our own footprint with this expansion. But the real impact we have is mainly with our customers and the sustainable handprint we leave there. Our customized solutions impact people and the environment year after year,' explains Hans Boels, CEO of Lybover.

New Infrastructure for Further Growth
With an investment of 5 million euros, we will significantly expand our headquarters in Waregem. There will be 80 new work places, a new cafeteria and more meeting and training facilities. This expansion coincides with our 40th anniversary in 2025, a symbolic milestone for our group.

'We would like to thank the city council for giving us space to do business since the very beginning. We will be celebrating our 40th anniversary in 2025, but our approach is more relevant than ever,' Hans Boels concludes.

Future-Oriented Investment
Besides the infrastructure expansion, we are also investing in IT and innovative technologies such as 3D engineering and virtual reality. This modern approach enables agile project execution and supports the continued growth of our company.



Katrien Verfaillie (Marketing & Communication Manager) and Kristof Blondeel (EHQSF Manager) show that Lybover is enrolling with great enthusiasm in the Voka Sustainable Entrepreneurship Charter.

Building a Sustainable World, From the Inside Out

At Lybover, we integrate sustainability into our core business every day. That is why we signed up for the Voka Sustainable Entrepreneurship Charter (VCDO).

The VCDO programme is based on the 17 Sustainable Development Goals (SDGs) of the United Nations. These SDGs are a guideline for companies that want to incorporate sustainability in the broad sense of the word. Through coaching, experience exchanges and external evaluation, companies are encouraged to strengthen their sustainability efforts and create a positive impact on society and the environment.

It doesn't stop there for Lybover: we are also building on our Ecovadis score and working towards a sustainability report that builds on the principles of CSRD.

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Behind the Scenes in Beringen: The Future of the Manufacturing Industry



At the end of 2023, we moved into a new hub on the VINTIV site in Beringen. To showcase our new hub and approach, we organized the event "The Future of Manufacturing" alongside VINTIV on Friday, May 31, 2024.

This unique event provided our customers with the opportunity to explore the smart technologies and sustainable innovations that will define the future of the manufacturing industry. In an era where innovation drives society forward, Lybover and VINTIV are prepared to guide companies through this evolution. Additionally, during the event, our guests were taken on a tour of the site, where they learned about "The Lybover Way" and how we transform complex challenges into exciting projects.

For a closer look, scan the QR code and see for yourself.













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