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The new S-WING 1000 accompanies the development of the Recycleurs Bretons

www.copex.com

France

A WORD **from the Chairman**

We are happy with the resilience shown by COPEX in an environment marked by the end of the disinflation, the war in Ukraine and its human and economic consequences, not to mention the challenges to our social and protective model.

Against this backdrop, the company continued to win numerous orders while maintaining a good level of profitability. This situation is essential for financing our investments in order to strengthen our «competitive agility».

We owe these good results to our decision to make ourselves less dependent on certain countries such as Russia, by starting in 2014 to conquer new markets such as the United States and Germany. To do this, we have renewed our entire range of machines to meet the requirements of these two highly competitive markets.

The recent start-up of the new LIDEX 1100 at GOLD STAR METALS in Houston (USA) and the upcoming installation of the new LOACKER Group acquisition for its Karlsruhe site in Germany confirm that this strategic choice was the right one.

At the same time, our long-standing customers, such as RECYCLEURS BRETONS, have renewed their confidence in us to receive a unit of our new S-WING range for their site in Brest (France).

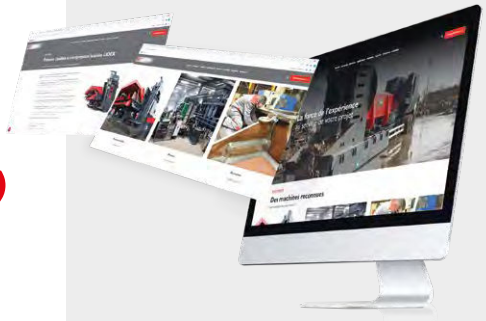
Finally, the major players of the recycling sector such as DERICHEBOURG ENVIRONNEMENT, GUYOT ENVIRONNEMENT, GALLOO, SIMS METAL...have continued to modernise their sites by choosing COPEX shears.

Our geographical diversification has also been accompanied by an opening up to other growth markets such as wastewater treatment. Our experience in the design of compaction solutions attracted the STEREAU Group, which entrusted us with the production of presses to equip a water treatment plant located in the Paris region.

In order to support our strong growth, it was necessary to change our recruitment habits by choosing to reinforce the attractiveness of our company. This means modernising our industrial processes and making renewed efforts to integrate our new recruits into the company. The current recruitment difficulties are not inevitable. We simply have to agree to adapt to the changes that are now required of any modern company.

Frédéric Malin,
Chairman

In this Issue



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The S-WING 1000 of the Recycleurs Bretons in the port of Brest.

The new S-WING 1000 accompanies the development of the Recycleurs Bretons

The Breton specialist in the collection, recycling and recovery of waste has acquired a new Copex scrap shear. This time, it is a 1,000-ton S-WING, which was recently put into operation in the port of Brest in Brittany (France).

Multi-specialist in waste recycling

The Recycleurs Bretons presents itself as a "multi-specialist" in the field of waste recovery and indeed fully deserves this title.

"Since the company was founded more than thirty years ago, we have been implementing many innovative recycling solutions for the waste we have been collecting and so contributing creating the conditions for a responsible circular economy," explains CEO Pierre Rolland.

Thus, in 2013, the company created a high-performance sorting centre in the city of Guipavas to optimise the sorting of waste and process it into re-usable materials or energy. Treated wood is transformed into particleboard, while paper/cardboard is sent to the paper industry. The waste materials that cannot be reused in the production process become refuse-derived fuel (RDF), which is used in cement and heat production plants. Currently, 25,000 tonnes of RDF are produced each year by Les Recycleurs Bretons.

Decarbonation of steel from ship breaking

Scrap metal recycling remains a flagship activity for the company, which in 2021 delivered 30,000 tonnes of "decarbonised" steel to foundries in northern France and elsewhere in Europe. This scrap iron comes mainly from ship breaking (pleasure boats and large ships), an activity in which the Recycleurs Bretons is a leader at the European level. In fact, the company is one of only three in France to have approved facilities for ship recycling (43 in Europe).

One customer: three models of Copex shears

With this new machine, the company joins the rather exclusive club of Copex customers owning a fleet of machines belonging to the three different ranges of scrap shears proposed by the French manufacturer. In 2011, it acquired one of the first Lidex, of 800 tons and a 3 x 110 kW containerised unit for its Plouigneau site.

In 2018, a 650-ton REFLEX fixed shear press was installed in the port of Brest.

From now on, the 1,000-ton S-WING shear with compression by press wings, also installed in Brest, with its conveyor and vibrating table, will complete the strike force of the Recycleurs Bretons.

The arguments that seduced its CEO, speak for themselves: *"We chose this machine because it is a real heavy-duty press-wings shear. Everything on this machine is reinforced for intensive use. In addition, some of the technical features of the Lidex can be found on our new machine, such as the longer and more robust shear ram guide than on other machines of this type, and the maintenance platform for changing the blades. Finally, the acquisition of a French and even more Breton-made shear, although not the most decisive factor, reinforced my final choice."*

RECYCLEURS BRETONS

IN FIGURES

- **7** sites in Brittany (France)
- **200** collaborators
- **150,000** tons of products processed each year
- **25,000** tons of RDF produced each year
- **30,000** tons of scrap metal sold each year

www.recycleurs-bretons.fr

Final tests for the Lidex 1300 from Loacker - From left to right : Lionel le Mentec (Copex), Andreas Kresser (Loacker), Benjamin Jentzsch (Loacker), Nicolas Bourbey (Copex).

LOACKER

Wertstoff Zukunft.

IN FIGURES

40 operating sites

25 companies

8 countries

1348 collaborators

1028 Millions € turnover

Loacker Rheinhafen deploys its full power with the 1300 ton Lidex

The German subsidiary of the Austrian Recycling Group Loacker will soon be receiving a new 1300-ton Lidex at its Karlsruhe site. Benjamin Jentzsch and Andreas Kresser, Technical Project Managers at Loacker, in charge of the project implementation, have come to the Copex plant to take delivery of their future machine.

Loacker-Copex history: A new page is written

Loacker and Copex have known each other for many years. Nicolas Bourbey, Sales Manager, recounts: "*In 2003 the Austrian recycling company invested in a large 1500-tonne scrap shear of the previous generation. This machine is still in operation at the headquarters in Götzis. Then in 2019 we delivered a 650-tonne REFLEX mobile scrap shear to the Swiss Loacker subsidiary.*" Since then, the recycling company has become familiar with the new generation of Copex scrap shears with side compression, including at an open day held at the recycling company RAGG in Tyrol, Austria, in 2021. And finally, it was Loacker's German branch in Karlsruhe that placed the order for the Group's first Lidex in 2022.

The choice of the Lidex

Benjamin Jentzsch explains: "*Our long-standing relationship naturally played a role in our decision. We were already familiar with Copex technology and knew that Copex could produce high-capacity scrap shears. However, the decisive factor for us was the technical design of the Lidex, especially the Copex's own kinematics of the preload table and the lid. In our opinion, the Lidex with 1300 tons of cutting force will become the most competitive and powerful scrap shear within the Loacker Group.*"

As Loacker currently operates an 800-tonne shear in Karlsruhe, Germany, which has gradually reached its maximum capacity, the company expects to significantly increase throughput with this new and more powerful machine. The Lidex will be supplemented by a Seram brand metal belt conveyor, whose interface to the machine will be taken over by Copex. This new configuration will make it possible to make optimum use of the existing rail and port connections at the site.

Long-term project support

The Loacker representatives particularly appreciated the way Copex carried out the project implementation in perfect coordination with the Loacker team.

Andreas Kresser comments: "*With projects that take two years or more from the initial idea to the machinery starting up, it is very important to build a trusting relationship with the supplier. In all phases of the project, Copex has had a solution-based and responsive approach. Another major point was the absolute reliability in terms of meeting deadlines.*"

Final words from Nicolas Bourbey: "*With our Lidex shears and the S-WING winged shears, we have the machines that meet the high quality and performance requirements of the German market. We will also be at our German customers' side as a reliable and professional partner when it comes to technical support.*"

www.loacker-recycling.com

GSM's new Lidex will process huge scrap amounts.

Gold Star Metals (GSM) and Copex:

A common passion for highly efficient and powerful machines

Gold Star Metals of Texas has received its second Copex scrap shear. A 1,000-ton Lidex which has been installed at their Channelview division in January 2023.

Gold Star Metals (GSM): Recycling as A.D.N.

Founded in 2007, the small family-owned company GSM has grown to become one of the leading industrial metal processing and recycling companies in Texas. In a very short span GSM has successfully scaled the business thanks to its three strategic locations in Texas region i.e., Houston, Channelview, and Dallas/Fort Worth. The new 1,000-ton Lidex machine was installed at Gold Star Metals Channelview division by our new North America partner Himes Services.

Customer feedback

Jignesh Ratani, CEO of GSM says: "*To equip our new Channelview site in 2019, we wanted the best technology available in the industry which is capable of withstanding a rigorous production cycle. We needed to process up to 20,000 tons of scrap metal per month. The Lidex was the only machine with a fully automatic operating cycle and a formidable pressing and cutting force.*

To meet our requirements, Copex did not hesitate to comply with our request for a large cutting width of 1,350 mm for a 1,300 ton (1,400 US tons) which is quite unique. Copex team was extremely forthcoming to customize the machine to meet our needs.

After four plus years of rigorous use, we are very happy with our decision as this machine has exceeded our expectations in every aspect i.e., production capacity, efficiency and flawlessly processing large volumes of heavy melting scrap. There were only a few minor issues which were quickly resolved. The machine has proven to be extremely robust and reliable over time," concludes the CEO.

GSM
BENCHMARK IN METAL RECYCLING

IN FIGURES

275,000 metric tonnes of ferrous and non-ferrous scrap recycled each year

10,800 containers exported worldwide

1,962 million BTUs of energy saved

A Lidex 1000 (1,100 US tons) to process Heavy Melting Scrap

Lidex remains one of the most modern equipment in the marketplace today. The second Lidex machine installed at GSM has a cutting force of 1,000 ton (1,100 US tons) and a cutting width of 1,000 mm (40"). The machine was carefully chosen by GSM's CEO to increase their production capacity to meet the growing global demand.

Frédéric MALIN concludes: "We are very proud of this renewed confidence from our American customer. We particularly appreciated the involvement of Mr Jignesh Ratani in the design of his installation, including the feeding of the shear and the handling system of the cut materials. This demonstrates that our values of quality manufacturing, and our technological strengths continue to pay off, even after 75 years of existence."

www.goldstarmetals.com

Copex is ready to dive in for Stereau!

The engineering and construction division of the Saur Group, Stereau confirmed its order to Copex for three baling presses for the treatment of screenings in the Paris region. Or how Copex (re)deploys its know-how as a solution provider in a wastewater treatment project.

The challenge of compacting screenings

The first stage of wastewater treatment is screening, which consists of removing the most voluminous solid pollutants from the wastewater that could interfere with subsequent treatment or damage the equipment. The collected products are called screenings because they result from a filtration that takes place by means of big screens. These products cannot be disposed of by incineration. It is first necessary to increase their dryness. High density compaction of this waste is the ideal solution.

A solution for Stereau ...

Stereau approached the company Copex during a call for tenders issued by Coved - also a subsidiary of the Saur group at the time - for a residual waste baling and transfer plant. Stereau was looking for a solution for compacting bulky waste as part of the water treatment plant upgrading project in Clichy. The aim was to compact the screenings and remove as much water as possible, optimise the water collection rate, which the operator has set at 95%, and guarantee a very high availability rate for the installation, which is to operate continuously. Another constraint was to size the machine according to the heterogeneous and sometimes very bulky waste materials to treat.

For this application, Copex offered its baling press type PSP – Product Separating Press - with a section of 800 x 800 mm and a 22 kW electric motor. The feasibility of the solution for this type of use remained to be validated.

... and a new challenge for Copex engineers

Copex has been specialising in the design and manufacture of shears and balers for 75 years. Over the years, it has built up a highly qualified and experienced project team which, alongside the manufacturer's standard machines, provides its engineering skills for specific projects. For Stereau, for example, a test campaign was carried out to validate the technical solution and its consistency with the specifications. Some specific developments and a Stereau's own installation configuration were also proposed to the customer to consider the site characteristics, as well as the safety and operating constraints. Needless to say, Copex will also be responsible for the delivery, installation and commissioning of the equipment and the training of the customer's technicians on site.

In the context of the Paris 2024 Olympic Games,
Copex will deliver its equipment to two sites (A and B) operated by the SIAAP (Syndicat Interdépartemental pour l'Assainissement de l'Agglomération Parisienne).

Site A

Installation of a baling press with a bypass conveyor and an additional feeding hopper for emergency use

Delivery: April 2024

- Production: 24 hours a day
- Compaction force: 185 tonnes
- Engine: 22 kW

Site B

Installation of two baling presses

Delivery: May and June 2024

- Production: 24 hours a day
- Compaction force: 185 tonnes
- Engine: 22 kW

Copex enters Industry 4.0

Clément Thirion, a young graduate of the ENIM (engineering school in Metz) has joined the Production team as a Methods engineer. One of his missions is to implement measures to improve the quality of both physical and computerised part flows.

Real-time monitoring of activity

Under his supervision, Copex has just deployed a real-time production monitoring system for machining centres. A solution based on the vibrations emitted during the machining phases has been chosen. This makes it possible to follow the manufacturing process perfectly and to provide information on the causes of machine stoppages using a user-friendly interface.

For each machine equipped with a Keyprod box, a photograph of the working day is obtained which shows the production phases (in grey), shutdowns (in orange), set-up times (in yellow) and maintenance times (in white). The main causes of shutdowns are identified and better targeted actions can be implemented:

Photograph of the working day

organisation of maintenance phases according to production cycles, standardisation of production methods, investment in tools or new machines. In this way, Copex hopes to optimise the availability of production resources and shorten production times.

A connected cabinet to optimise stock management

The second step consists of setting up a connected cabinet for the management of cutting tools for the machining machines. These cabinets provide real-time access to stocks, ensure traceability of users who have had access to the contents and provide a history of movements. The cabinet carries out a permanent inventory and sends automatic alerts to replenish the tools. Optimising the availability of machining resources is again the objective here.

This is a first step for Copex towards the digitalisation of production and Industry 4.0.

Upcoming Events in 2023 COME AND MEET US!

				Booth
APRIL	17-20	**ISRI**, Nashville, Tennessee		#2243
APRIL	27-29	**RecyclingAKTIV**, Karlsruhe		#H100
JUNE	20-23	**ISRI Gulf Coast**, Dallas, Texas		#621
SEPT	12-13	**Scrap Expo**, Louisville, Kentucky		#422
OCT	4-5	**BDSV Jahrestagung**, Dresden		
OCT	10-13	**Pollutec**, Lyon		

#News in Brief

01

FENG HSIN

COPEX SELLS A FIRST LIDEX IN TAIWAN

Successful partnership with Cheng Ho Hsing Heavy Ind. Ltd: Taiwanese steelmaker Feng Hsin Steel Co. Ltd. purchased a 1,300-ton Lidex scrap shear for its Taichung facility. The machine will be installed in 2024.

02

TOLMETS TAKES CONTROL OF ITS REFLEX

Tolmets, leading scrap metal recycling company in the Baltic States, has received its 900-ton REFLEX mobile shear for one of his scrap yards in Latvia. The machine is equipped with wheel guard plates for optimum protection of the road chassis.

03

MONIER GROUP INVESTS IN COPEX MACHINES

Monier Environnement has ordered a 650-ton REFLEX mobile shear for its recycling site in Rennes and a 1,000-ton S-WING press-wing shear for Romi Bretagne in Saint-Malo. Deliveries are scheduled in early June this year and in 2024 respectively.

04

DERICHEBOURG

DERICHEBOURG ENVIRONNEMENT PULLS OUT ALL THE STOPS FOR ITS METALS BUSINESS

Derichebourg Environnement is conducting large investment projects in the scrap metal recycling and chose Copex for its big side-squeeze recycling machines. Copex is to supply the recycling leader with 9 Lidex-shears. 4 machines have already been started up on site. Copex will deliver 4 more by the end of 2023 in France. The arsenal will then be completed with a 1,700-ton Lidex that will be installed abroad in 2024.

05

COPEX TEAMS EXPAND

To support its strong development, Copex has recruited an industrial designer, a machinist, a service technician and a methods engineer. Welcome on board!

06

DELIVERY OF A S-WING 1000 TO SCHOFIELD

After successful tests at the Copex factory, the S-WING press-wing shear from British recycler Schofield is on its way to the Huddersfield site in northern England. The machine has a cutting force of 1,000 tonnes, an 8m long box, a cutting width of 800mm and a 650hp diesel engine.

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