
TAURUS
YOUR SCRAP SOLUTION
SINCE 1964...
ALWAYS A STEP AHEAD!

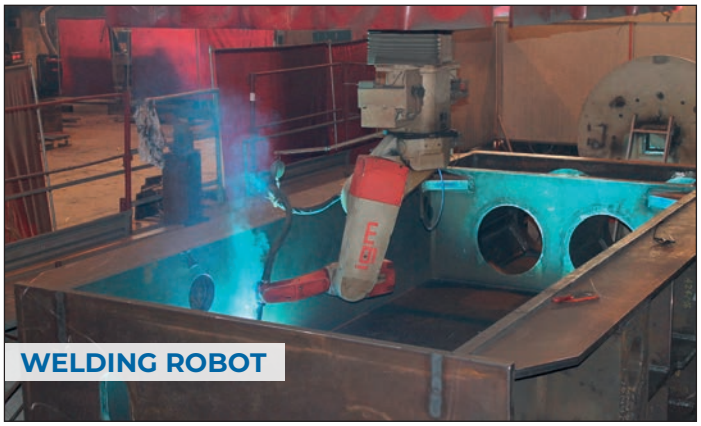


THE FACTORY



MECHANICAL PROCESSING





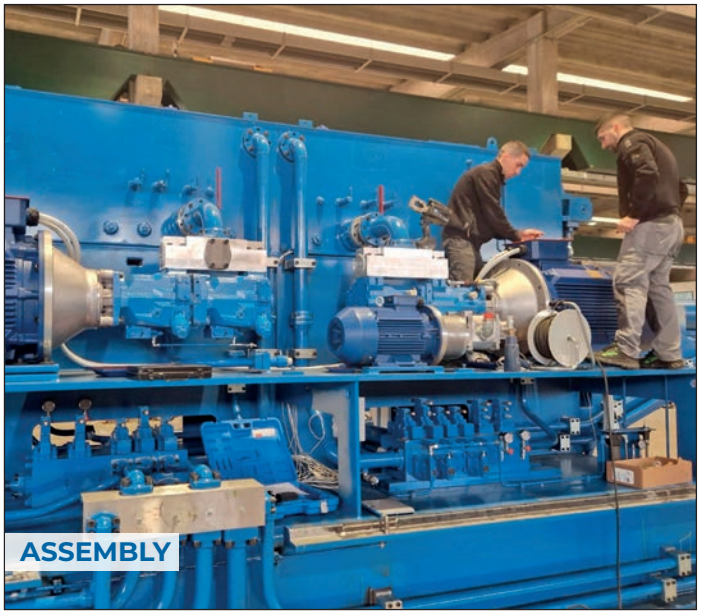
WELDING ROBOT

6000 P.S.I.

COMPONENTS, CYLINDERS, PIPES, STRUCTURES DESIGNED FOR 6000 P.S.I. HYDRO - TECHNOLOGY

- LESS ENERGY CONSUPTION
- BEST PERFORMANCE
- BEST EFFICIENCY


FABRICATION


ASSEMBLY



TRANSPORT


TRAINING AND TESTING

TAURUS

YOUR SCRAP SOLUTION

TAURUS is a historic brand in the scrap processing market. Since the 1960s TAURUS has been involved in the study, design, development and production of plants and machines intended for processing ferrous and non ferrous scrap.
Giovanni Colombo and Dino Giuliani, founders of the company can be counted among the forerunners of compression and shearing techniques and technologies applied to scrap metal processing machines.

Since the 1980s, through the experiences gained and cooperation with Peter Beyeler, a deep connoisseur of the needs and requirements of the industry, TAURUS has been studying, designing, building and marketing “shear balers” equipped with the original “oscillating wing” compression system. Since then, more than 1,000 shears have been installed worldwide under the TAURUS brand name.

In 1991, TAURUS began the design and production of the MILLFEEDER (scrap bale pre-shredder intended to feed hammer mills).
The BRAVO PRE-SHREDDER branded TAURUS is the undisputed leader in the world.

In the early **2000s**, the TR continuous-feed chute shear joined the production.

In 2010, work began on the design and development of the **REDMILL** hammer mill, and in **2015** the **REDFINER**, an innovative module for metal refining, was launched.
Since then, TAURUS branded production has been divided into three product lines:
BLULINE for the **SBxx** series of shears balers with oscillating wing system;
BLACKLINE for continuous-feed inclined shears;
REDLINE for the range of pre-shredders and hammers mills.

In 2026, TAURUS launched the new **BLULINE** production line featuring the **SB** series of fixed shear balers: **HAKA, K, X, R, Q**; and the **ELLE** series of transportable shear balers.
In 2026, the **HIRU** mobile track-mounted shear baler was launched, equipped with *ARD and DAS* technologies and featuring safety integrated into the machine.
HIRU is not just a high-productivity shear baler but an advanced engineering system designed to eliminate any margin of risk.

> *Nothing will ever be the same again.*
> *It is time to seize renewed opportunities from changing events, to identify new paths and to develop ideas and techniques that are evolving from the past.*
> *We are at the beginning of a new time.*
>
> C.C.

TAURUS YOUR SCRAP SOLUTION BLU LINE

SHEAR BALERS FIXED

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TAURUS YOUR SCRAP SOLUTION | BLU LINE

The purpose of shear balers is simple: to cut scrap metal into sizes and densities that optimize storage space, reduce loading times, cut transport costs, and provide scrap that is 'furnace ready '. The challenge lies in building a machine that represents the very best in engineering and technology.

TECHNIQUE is our know-how, our ability to design and build by applying the knowledge gained through experience, having thoroughly analyzed production processes.

TECHNOLOGIES are our approach to innovation and research; they are the application of processes and solutions that require advanced technical and scientific knowledge.

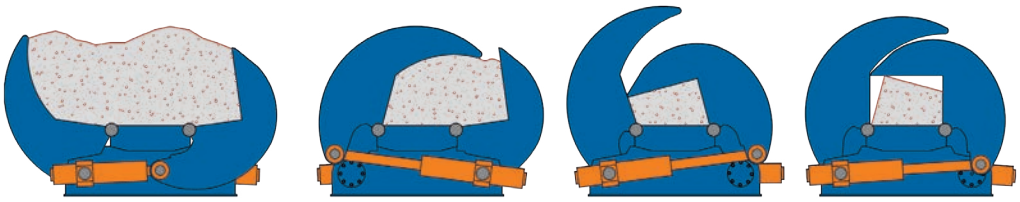
TECHNIQUE AND TECHNOLOGY applied to the study and development of ever-new ideas.

The scrap market is undergoing radical changes to which the scrap and machinery industries must adapt.

Today, a shear baler is not chosen solely on the basis of its productivity but also, and above all, for its versatility, operating costs, auxiliary facility costs, foundation costs, ease of relocation, ease of maintenance, safety, and, above all, as an amortizable investment that pays for itself quickly.



THE SHEAR BALER SB.XX



The **SB.xx** shears balers are designed according to a **"SAFETY-ORIENTATED"** construction philosophy that combines: operator protection, machine function control and structural robustness.
TAURUS machines represent the evolution of an engineering concept aimed at ease of use and reduced operating costs, with technical solutions developed to cope with intensive and continuous work cycles.
Safety is the central principle of design.
The machines are developed according to criteria that integrate safety into the design, with particular attention to operator protection, the reliability of the control systems and the control management of operational phases.
The monobloc construction system, supported by a robust structural frame with an integrated tank for leachate (liquids) recovery, allows the machine to be installed without the need for dedicated foundations, reducing plant commissioning times and costs whilst ensuring high structural rigidity.
The SB oscillating compression system, characterized by high load capacity and remarkable operational simplicity, enables efficient handling of different types of scrap, improving feed continuity and productivity.
The **"HEAVY-DUTY" structure** is designed to withstand the highest mechanical and hydraulic stresses typical of high-intensity industrial applications.
The "BOOSTER" technology, operating at up to 400 bar, enables high compression and cutting forces to be generated whilst maintaining fast cycle times, energy efficiency and high performance even on the most challenging materials.
Advanced operating programs allow the operating cycle to be automatically adapted to the varying characteristics of the scrap being processed.
The functions of:
- Dedicated production programs;
- Setting of operating parameters;
- Automatic adjustment of operating sequences;

enable the optimization of productivity, energy consumption and processing speed according to the material fed into the machine.
The control interface is designed to ensure ease of use, immediate operability and a quick learning curve for the operator.
Maintenance is made easier by a design that priorities access to the main mechanical and hydraulic components, reducing machine downtime and service costs.
The shear balers produce **high-density scrap**, offering significant logistical and production benefits:
- Reduced loading times for transport vehicles;
- Lower transport costs;
- Optimized storage logistics;
- Reduced charging times for the melting furnace;
- Increased quantity of material fed into the furnace thanks to the higher density of the sheared scrap;
- Improved overall efficiency of the steelmaking process.

The combination of power, technology, safety and build quality makes this range a solution designed to meet the needs of modern scrap metal recovery and processing plants.



ENTRY LEVEL

A machine that can do it all; **HAKA** is a robust, powerful and flexible shear baler the ideal machine for those looking to expand. **HAKA** is easy to use and can process various types of scrap, transforming it into high-quality material ready for the furnace.
HAKA strikes the perfect balance between structural robustness and advanced technology. Its cutting and compaction system has been optimized to reduce processing times and increase productivity, whilst keeping running costs low. Every cycle is designed to deliver efficiency, reliability and a tangible financial return.
HAKA is a strategically for those looking to improve the profitability of their plant. Every hour of operation translates into an investment that generates value.
It is the machine that not only works well, but works better and for longer, turning every cycle into a competitive advantage.





SHEAR BALER “HAKA”

Cutting force	up to t 800
Clamp	up to t 110
Main compression cylinder	up to t 150
Box length	up to mm 7200
Motorization	electric or diesel

K - THE SHEAR BALER FIXED



NEXT STEP

The **K** shear baler is designed to be flexible, quick to install and commission, simple to operate, and capable of integrating easily into any operational environment.
The ideal solution for expanding facilities requires greater productivity and operational continuity.
Designed for demanding cutting requirements and unprecedented flexibility.
The natural choice for those dealing with high volumes of scrap, offering a return on investment in no time.
K ensures consistent performance and reliable results.
Choosing **K** means opting for a machine designed to simplify day-to-day operations and optimize production times.





SHEAR BALER “K”

Cutting force	up to t 1000
Clamp	up to t 220
Main compression cylinder	up to t 180
Box length	up to mm 7200
Motorization	electric or diesel



THE FUTURE OF SCRAP METAL STARTS HERE

In the scrap metal recycling sector, companies are no longer simply looking for a machine: they want solutions capable of boosting productivity, reducing operating costs, ensuring continuity even under the most demanding conditions, and keeping operating costs sustainable.
The answer is **X**, the shear baler designed for the future, which combines the most advanced technologies with an extremely robust structure.
At the heart of the design are safety and a series of innovations that make X an innovative shear baler:

- **FASTLOOP**, an electro-hydraulic circuit that reduces cycle times and makes operation faster and smoother;
- the **REG** system, which maintains blade holder alignment to ensure consistent cutting over time;
- the new **EPO** operating program, designed to improve plant management.

The SB geometry of the pre-compression box allows the **X** to process even bulky scrap with ease, whilst the HV structure ensures strength, stability and a long service life.
In short, the **X** offers power, reliability and consistency at the service of the operator and the site.



SHEAR BALER “X”

Cutting force	up to t 1300
Clamp	up to t 320
Main compression cylinder	up to t 180
Box length	up to mm 7200
Motorization	electric or diesel

R - THE SHEAR BALER FIXED



THE ESSENCE OF EXPERIENCE

The **R** shears are for those who want to turn scrap into value; the **R** is a machine designed to operate without compromise.
Designed for scrap recycling professionals who are looking to the future.
The **R** series handles bulky, structured materials that are particularly tough and high-density: demolition waste, industrial scrap, rolling mill trimmings, rails, and reinforcing bars HMS1 & HMS2.
These are VHD machines built to last, for those who demand high throughput and continuous operation.
The monolithic structure makes installation straightforward: no foundations, no complications; just efficiency.
The **R** range has been designed for plants with high production volumes and intensive work cycles, machines that combine compression force, operational continuity and superior cutting performance.

Designed for professional operators and large recycling centres, this range strikes the perfect balance between industrial productivity, energy efficiency and durability.
R is for those who want high performance, low costs and maximum ease of use.



SHEAR BALER “R”

Cutting force	up to t 1400
Clamp	up to t 320
Main compression cylinder	up to t 180
Box length	up to mm 7200
Motorization	electric or diesel



TOP OF THE RANGE

The very best in technology and manufacturing within the scrap shear balers sector.
Designed for large industrial plants and the most demanding applications, this series has been developed to guarantee heavy-duty performance, 24-hour continuous operation and processing capacity at the highest levels.
The high cutting force and large dimensions of the pre-compression box, with an opening of over 3 metres, allow for the handling of heavy, bulky and high-strength scrap, increasing feed capacity and optimizing work cycles even with particularly difficult materials.
Q, a shear baler designed for the future.

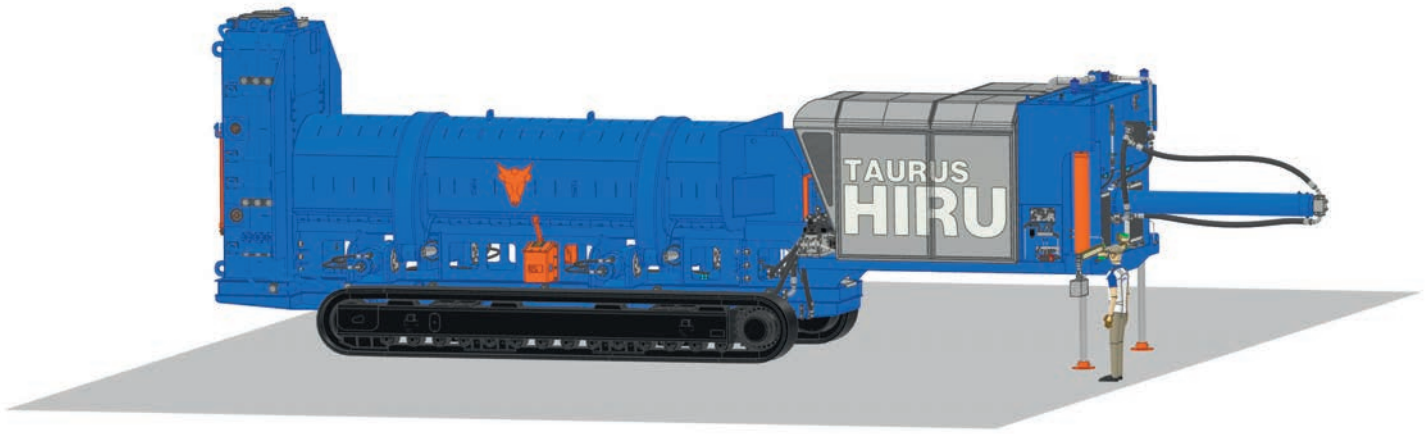
A large-scale machine for high performance, born after more than 60 years during which we have invested, experimented, designed and dedicated ourselves solely to the construction and development of scrap shears.
Q: the culmination of our work and our experience.





SHEAR BALER “Q”

Cutting force	up to t 1500
Clamp	up to t 400
Main compression cylinder	up to t 180
Box length	up to mm 8300
Motorization	electric or diesel



WE BUILD MACHINES TO PROTECT THOSE WHO USE THEM AND TO SAFEGUARD THOSE RESPONSIBLE FOR THEM

In an industry where power is everything, we have chosen to prioritise those who control that power.
Our **HIRU** shears balers are not just high-productivity shear balers, but advanced engineering systems designed to eliminate any margin of risk.
HIRU shears are designed on the principle that no hazardous function should depend on human error.
Greater productivity, greater control, greater safety.
Because for us, the efficiency of a plant is not measured solely by the tons processed, but also by the peace of mind of those who work there every day.

- **Safety technology:** integrated systems for operator protection
- **Structural reliability:** certified materials and structures designed to withstand the most demanding work cycles.
- **Predictive engineering:** intelligent solutions to prevent breakdowns and hazardous situations.

Choosing our machines means investing in a more modern, more productive, more profitable and, above all, safer plant.
Behind every shear baler there is not just an operator but a whole system of accountability.
Our engineering is also your best defence.
We don't just sell cutting power; we sell the peace of mind that comes with a regulation-compliant investment.
Investing in one of our shears balers means eliminating the grey areas of risk management.
Every component is designed not only to maximise production, but to be your first line of legal and operational defence.

- **For the operator: the certainty of returning home safe and sound.**
- **For the business owner: peace of mind.**

The certainty of a system that exceeds safety standards, drastically reducing exposure and liability.

TAURUS, the technology that protects your work and your business.



THE TRACKED SHEAR PRESS

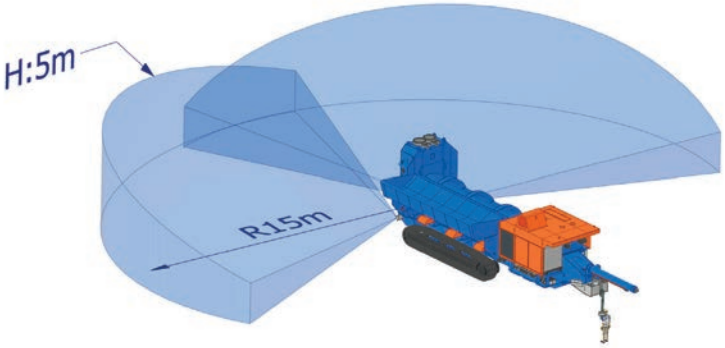
The mobile shear baler represented a significant development in the scrap recycling sector, subsequently evolving into a self-propelled tracked configuration based on the principle:
“if the scrap doesn’t go to the shear, the shear goes to the scrap”.
Track mobility has increased operational flexibility, allowing the machine to reach the scrap directly and then shear it on site.
However, this mobility does not permit indiscriminate movement around the site, nor can shearing be carried out haphazardly or in areas not previously defined and secured.
A tracked shear baler is not merely a mobile vehicle, but a high-energy process machine, characterized by heavy masses, large dynamic dimensions and extremely high compression and cutting forces.
Under these conditions, safety cannot depend solely on the operator’s attention or on ‘real-time’ risk management.
The Machinery Directive 2006/42/EC requires that risk be eliminated or reduced at source through the design of the machine.
When the interaction between the operator and the machine is constantly changing, the machine’s path becomes less predictable, hazard zones are harder to identify, and the risk tends to shift to the operator and the site management, particularly if the machine stops to cut at random points along the route that have not been designated and secured in advance. In such cases, one of the key principles of machine safety is compromised: the prior definition of the work area and the hazard zone.

SHEAR BALER “HIRU”

Cutting force	up to t 1300
Clamp	up to t 220
Main compression cylinder	up to t 180
Box length	up to mm 7200
Motorization	diesel

HIRU: ENGINEERED FOR SAFETY

HIRU was developed to overcome this design limitation by introducing a new philosophy: transforming safety from an operational procedure into a structural feature of the machine.
For this reason, **HIRU** introduces and integrates the two technologies **ARD** and **DAS** (Italian Patent Pending).
ARD physically and precisely defines the operating position, making the trajectory clear, the turning radius perceptible and the maneuvering areas clearly identifiable.
Safety no longer depends on the operator’s variable position, but on a stable geometry designed in advance.
DAS - “Drive Assistance Sensor” - completes the safety architecture by monitoring people, obstacles and interference within the operating area.
The system dynamically controls the path, automatically reduces speed and stops the machine in the event of hazardous situations. During operation, **DAS** defines, delimits and monitors the danger zone around the shear baler, detecting any intrusions or unauthorized presence.
The integration of **ARD** and **DAS** thus transforms the tracked shear baler into a system in which safety is not primarily reliant on human behavior but is incorporated into the design logic of the machine itself.
HIRU therefore introduces a new paradigm in the self-propelled shear baler sector: eliminating operational uncertainty and making safety a structural, predictable, repeatable and designed feature.



ELLE - THE TRASPORTABLE SHEAR BALER



LOADING - UNLOADING

The **ELLE** series of transportable shear balers is designed for those who need to move them frequently or for those who use them in a hire business.
Their compact and robust design incorporates four lifting cylinders, which enable quick and safe loading and unloading from the transport vehicle, reaching a maximum lifting height of 1100 mm.
To ensure operational stability, the machine is also equipped with two additional rear cylinders, which are essential for maintaining alignment during operation.
ELLE shear can operate either on the ground or directly on the transport vehicle, ensuring maximum flexibility in any operational context.
Positioning and commissioning are quick and intuitive, reducing downtime and increasing overall efficiency.

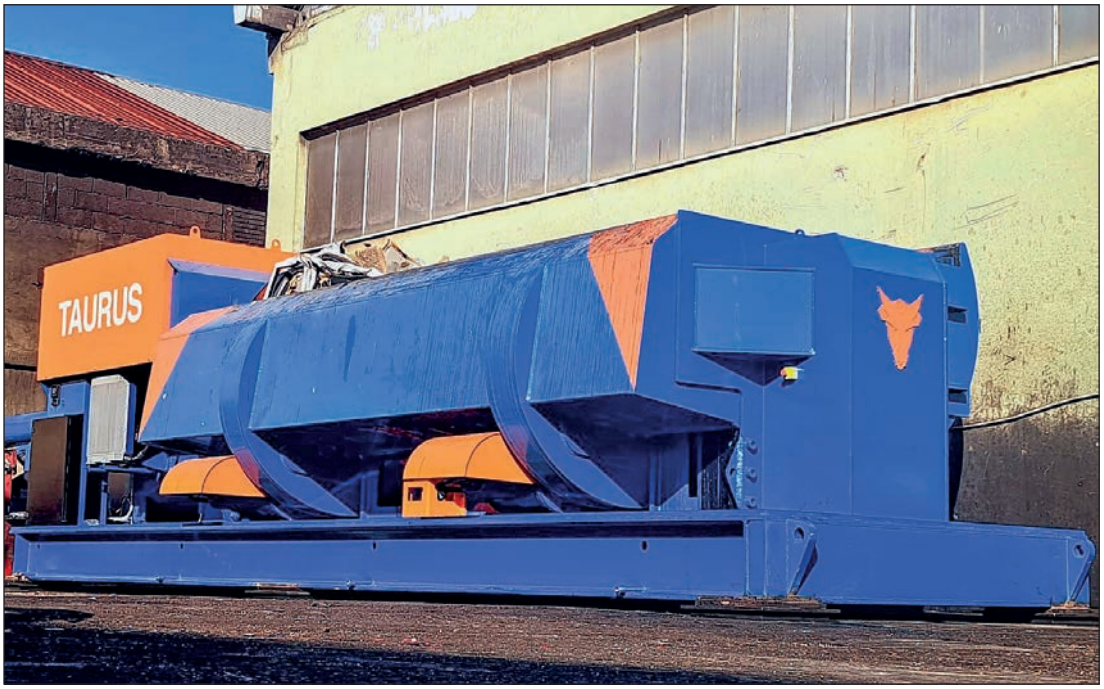
In addition to the scrap shearing function, these machines are capable of producing bales that are automatically ejected, which speeds up operations and optimises material handling.





SHEAR BALER “ELLE”

Cutting force	up to t 1000
Clamp	up to t 220
Main compression cylinder	up to t 150
Box length	up to mm 7200
Lifting jacks	n° 4+2
Motorization	diesel

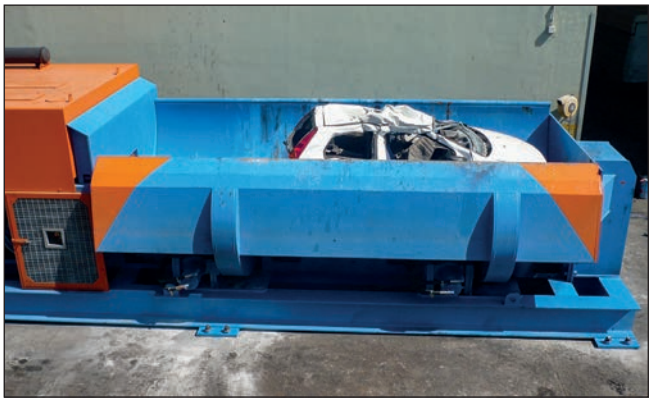


COMPACT IN SIZE, BIG IN PERFORMANCE



The **PH** is a compact, monoblock baler designed to operate on the ground; it is quick and easy to set up and start operating. In fact, all the main components (diesel engine, electrical and hydraulic systems, as well as the longitudinal compression cylinder) are integrated into the rear structure, making installation straightforward and ensuring maximum operational autonomy.
The pre-compression box utilizes the exclusive SB system with swinging wings, comprising a scrap slide and two hinged lids, made from high-strength wear-resistant steel to ensure durability and reliability even under the most demanding conditions.
The **PH** balers are available with 5- or 6-metre long compression box and can be configured with two cylinders per cover. The included remote control allows for safe, remote operation of the entire machine, ensuring intuitive and autonomous control.

The machine can be mounted on tracks for on-site movement.





BALER “PH”

Box length	up to mm 6100
Cylinders per wing	up to n. 2
Main compression cylinder	up to t 200
Bale dimension	up to mm 1000x600xV
Motorization	electric or diesel

MIZAR - THE TRANSPORTABLE BALER



POWER IN MOTION

MIZAR balers are monolithic machines with a 'tank-type' compression box, fitted with two hinged flat lids, the lower of which is hinged longitudinally to the vertical wall of the compression box. The inner walls of the chamber that come into direct contact with the scrap are made of thick, wear-resistant steel plate.
At the rear of the machine body, integrated with the compression chamber, is a structure housing and protecting the longitudinal cylinder, the diesel engine, and the electrical and hydraulic systems necessary for the baler to operate autonomously.
MIZARS can be transported (ROLL ON / ROLL OFF) as they are fitted with lifting hooks to allow loading onto the transport vehicle.
MIZAR balers have a particularly solid and robust structure; they can be fitted with a support frame and operate simply by resting on the ground. **MIZARS** are particularly suitable to produce bales of light ferrous scrap, end-of-life vehicles, white goods and collected scrap.

MIZAR balers are quick and easy to set up and operate; they are suitable for users who need to move them frequently or who use them for hire to third parties.





BALER "MIZAR"

Box length	up to mm 6100
Cylinders per wing	up to n. 3
Main compression cylinder	up to t 200
Bale dimension	up to mm 1000x600xV
Motorization	diesel

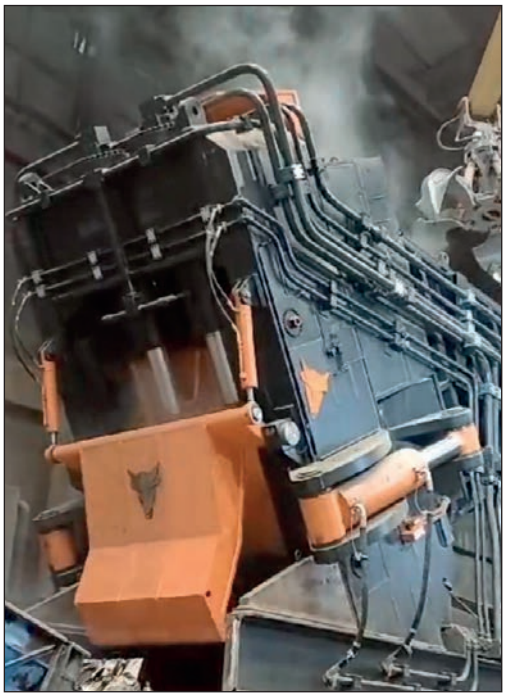
TAURUS YOUR SCRAP SOLUTION | BLACK LINE

The **BLACKLINE** line of continuous feeding shears, which includes the **TR**, has been subject to improvements and updates. The range has been expanded with the introduction of TR-VHD (very heavy duty) shears with cutting forces up to 1800 t, suitable for continuous shearing of all types of scrap, from profiles, pipes, and pantograph sheets to mixed and bulky scrap, demolition, rails, and rebar.







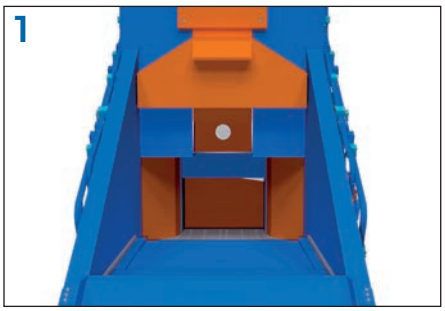






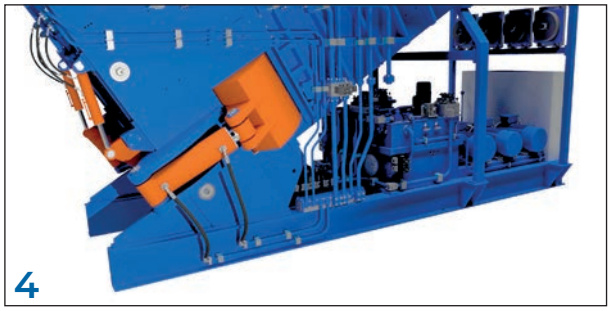
- AUTOMATIC AND CONTINUOUS CUTTING CYCLE.
- OPEN BOX
- OSCILLATING TABLE INCLINED BY 30°
- CUTTING WIDTH UP TO 1500 MM
- CUTTING FORCE FROM 800 TO 1800 T
- LATERAL COMPRESSION UP TO 500 T
- VERTICAL COMPRESSION FORCE UP TO 500 T
- NO FOUNDATION REQUIRED
- INSTALLED POWER UP TO 950 KW
- OUTPUT UP TO 100 T/H

THE FUNCTIONING



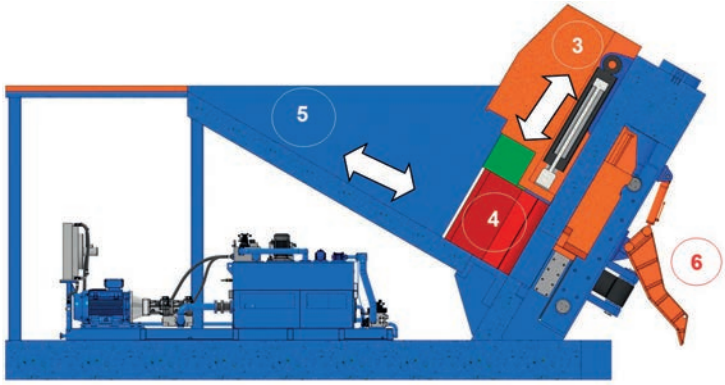






Scrap shears with inclined continuous feeding system **TR** are equipped with a vertical clamp (3) and two oscillating side lids (4).
The scrap to be sheared is loaded into the feeding box, which is attached at the front of the shear structure and consists of a hopper closed at the sides, with an open top and an inclined, oscillating table (1) (5).
After the side “lids” (4) and the vertical clamp (3) have reduced the size of the scrap, the gravity and the push of the inclined /oscillating table (5) let it slide under the shear blades.
The cutting length is defined by the external positive stop (6). Designed in this way, the machine pre-compresses and cuts the scrap in a continuous manner, without the need for manual material reduction prior to the shearing phase.

The operator’s work is therefore limited to loading the feeding box.
TR’ shears have a small footprint, concentrate their weight on the elements subject to stress and wear. They can also be loaded from both sides and are operated by a single operator.

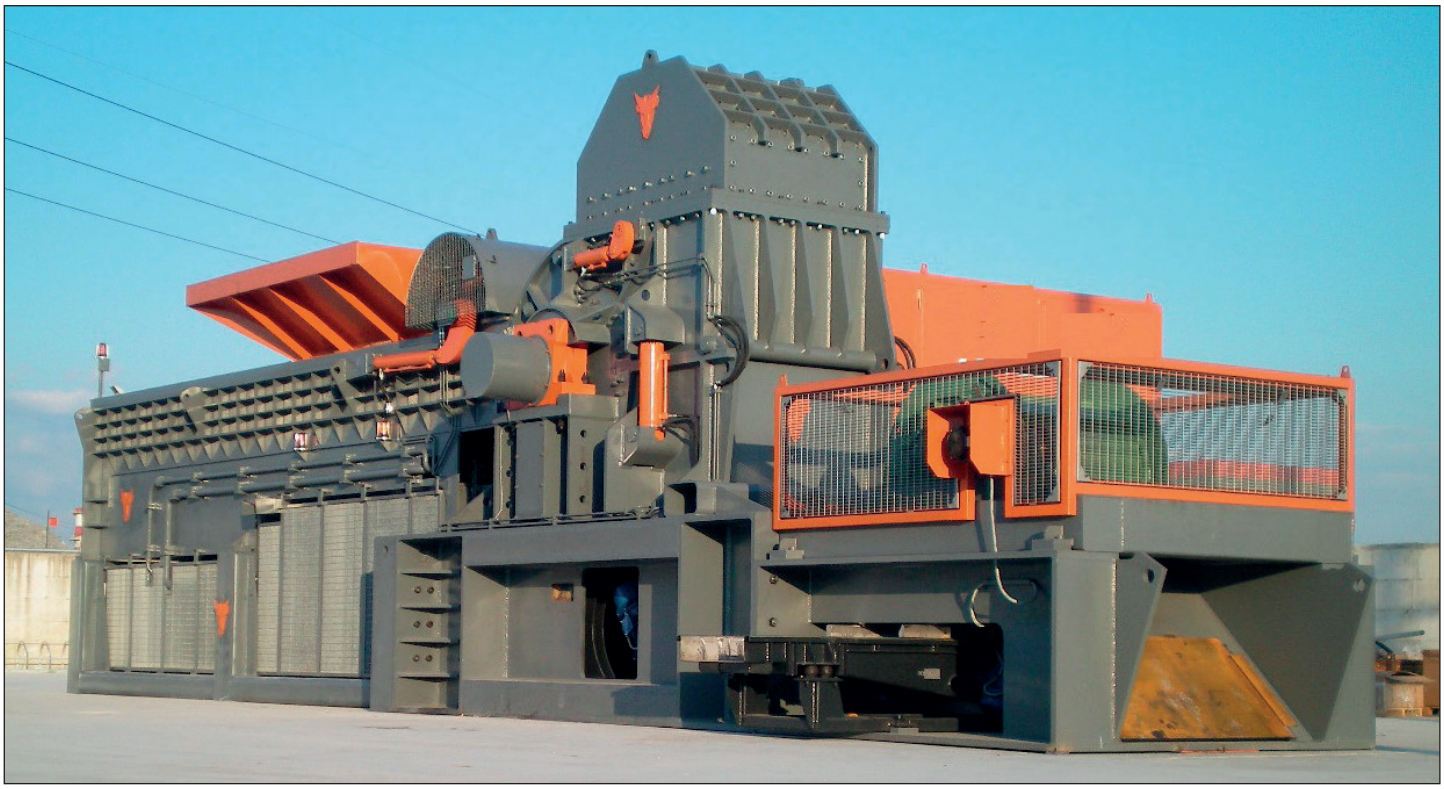


TAURUS YOUR SCRAP SOLUTION | RED LINE

The recovery of raw material contained in postconsumer durable goods, consisting of complex sets of ferrous and nonferrous metals and other materials such as plastics, glass, rubber, textiles, etc., is a relatively recent aspect of recycling that emerged when durable goods, introduced on a large scale in the 1960s with the economic miracle, began to be ejected in large quantities at the end of their useful life. By the economic and environmental importance of the secondary raw material (MPS) there is a need to learn more about these sets of metals and nonmetals, for a more efficient recovery action that influences the directs post-collection processing. The scrap recycling supply chain must align itself with a future-oriented economy that has as its goal the product thought of as scrap and the scrap thought of as product (sustainable development > green economy > circular economy). Recycling is also an activity that must be able to combine respect for the environment with economically sustainable solutions.



REDMILL - THE MODULAR HAMMER MILL



The **REDMILL** module, a horizontal axis hammer mill with side loading system, has been designed and built to enhance, through grinding and selection, the “poor” scrap from E.L.V, light scrap, WEEE, large home appliances ...
The justified demand for reclaimed scrap from the presence of pollutants makes necessary to have a grinding and selection system which, in terms of size, operating space, personnel employed, installed power, production and management costs, fits easily into the scrap yard and guarantees supply of high quality raw materials.
REDMILL, machines that adapt to the times, equipped with a sturdy support frame.



HAMMER MILL “REDMILL”

Electric motor	up to hp 1500





THE BEST FRIND OF YOUR HAMMER MILL

The **BRAVO** pre-shredder, with horizontally counter-rotating shafts, is used upstream of hammer mills in scrap mills, to coarsely and homogeneously crush mixed scrap, bulky scrap and E.L.V.
It is in particular used to rip bales of E.L.V., light and collected scrap, to facilitate feeding and make uniform the subsequent ripping operation at the mill. **BRAVO**: is equipped with an original OVERSTROKE 'OSD' swinging inclined base (Patented), which increases productivity, facilitates the gripping of particularly bulky materials and avoids floating scrap at the entrance to the ripping zone.

BRAVO is an indispensable technology in shredding and sorting plants for ferrous and non-ferrous scrap metal because:

- Eliminates the cause of explosions in the shredding chamber;
- Reduces and optimises the energy consumption of the grinding process;
- Avoids absorption peaks by letting the mill 'digest' pre-crushed and homogenously sized material;
- Significantly increases the service life of wear plates, grids and hammers;
- Enables smaller mills to process more material efficiently with an even flow of scrap, by preshredding E.L.V. as they are or in bales.







1992 S. PIERRE DE CAUDIEU.
The first pre-shredder, with indipendent counter-rotating shafts.

PRE-SHREDDER “BRAVO”

Rotor external diameter	up to mm 1800
Counter rotating shaft	n. 2
Main motors	up to Kw 1000
Output	up to t/h <120

Ed. 01-rev00-062026



TAURUS
YOUR SCRAP SOLUTION

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