THE WIDEST STANDARD RANGE ON THE MARKET
With over 200 machines and 200 options and accessories allowing more than 5000 different configurations to be built, you are certain to find what you need at DIMECO Alipresse the equipment which perfectly suits your application.

PRODUCT DESIGN
The robustness of our designs gives our equipment the reliability and durability which have built the reputation of DIMECO Alipresse. The mechanical parts are generously dimensioned and are often obtained from precision machined castings. We develop our pneumatic, hydraulic and electronic components with the world's largest parts manufacturers.

ASSEMBLE ON ORDER
DIMECO Alipresse sell more than 200 press feed lines every year. The sub-assemblies are produced in series. The machines are then assembled and precisely tuned according to your order.

A WORLDWIDE PRESENCE
DIMECO Alipresse makes 65% of their sales for export and accompany their customers in over 43 countries, supported by subsidiaries and a network of experienced and reliable dealers. Apart from advising you on the choice of your DIMECO line, our dealers are also capable of providing training for your employees in their own language, start-up and on-site level maintenance operations for your installations.

CONVENTIONAL LINE OR LONG LINE
This is the multi-purpose line par excellence. It consists of 3 different machines: a decoiler, a straightener and a feeder.

THE MOST SUITABLE ARCHITECTURE FOR YOUR CONSTRAINTS
Every cutting line project has its own constraints: characteristics of the materials being decoiled, type of press and cutting tools, area available, desired level of automation, frequency of production changes, operator skills, budget. The range of DIMECO machines allows you to choose what suits you best.

The choice of architecture of the decoiling line will determine the flexibility and productivity of the cutting line.

THE WIDEST STANDARD RANGE FOR ALL LINE CONFIGURATIONS

A STANDARDISED RANGE FOR THE WIDEST STANDARD RANGE ON THE MARKET
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THE DECOILERS

DIMECO is the only manufacturer in the world to offer a range of 4 standard digital controls, all developed with the largest electronic component manufacturers.

Digital control is the keystone of the DIMECO 3J press system. The DIMECO 3J press is an electronic conglomeration of the latest advancements in the field: a combination of a desk terminal on which the operator simply manages all the electrical and electronic equipment and a control unit for introducing the data into the computer. The two elements (DIMECO press and associated peripheral equipment) are harmonized. The control device offers the required degree of automation and simplicity, and the inaudible audible sound of the machine is essential. The entire control of the system is thus possible from the desk terminal with the touch terminal, running on Windows CE. Developed in the computer language of the 1980s, the touch terminal may access to all the technical production and maintenance data.

All our electronic components are supplied by the same manufacturer.

DECOILERS are all of a range of decoders for coils of 20 to 25 tonnes. The range of widths of 10 to 20 tonnes.

The computer and display can be up to 21 inches on the largest models.

The durability of the DIMECO mandrels is widely recognized. These parts of the press are made from special steel and are designed to last for more than 15 years. For heavier decoilers, the press is made from hard-hammering forging 3.5 to 6.5 kg, after being formed on hydraulic press DIMECO 3J change allows loading and unloading with dolly, in building the deep-hampering and stripping operations. Each of the press is equipped with a rack allowing easy centering of the coil on the mandrel. The process can be used with hydraulics.

The DIMECO system is a complete assembly which includes all the press equipment: a core of the press, press and line of cutting. The DIMECO 3J press is an electronic combination of the latest advancements in the field: a combination of a desk terminal on which the operator simply manages all the electrical and electronic equipment and a control unit for introducing the data into the computer. The two elements (DIMECO press and associated peripheral equipment) are harmonized. The control device offers the required degree of automation and simplicity, and the inaudible audible sound of the machine is essential. The entire control of the system is thus possible from the desk terminal with the touch terminal, running on Windows CE. Developed in the computer language of the 1980s, the touch terminal may access to all the technical production and maintenance data.

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THE STRAIGHTENERS

The choice of the straightener is the trickiest stage in the definition of a deciding line. The precise identification of the range of materials to be straightened and of the intended degree of flatness will allow the key construction parameters to be chosen: number, diameter and coating of the rollers, system of adjustment...

The maximum straightening speed is up to 50 m/s. The HI-SPEC ROLLS need thrust bearings or ball bearings. The cradle type straighteners are equipped with a load rating display. The latter can use a robust and ergonomic remote head, which can be also grouped on the material's cradle.

The maximum power actually transmitted to the straightener's control desk. As standard, with drive rolls on the exit side with pneumatic control or reinforced and hydraulically connected to the terminal of the feeder. This device must be connected to the loop management system allowing the best setting to be found for each of the straightening quality is ensured by a large number of independent adjustments.

The introduction of the strip into the straightener and then into the feeder can be a long and dangerous job. Our DIMECO straighteners are equipped, as a standard, with a passback for each of the rolls. By doing this, the strip is automatically adjusted to the new position of the feeder.

On demand, our design staff can design a special straightener corresponding to your particular specification.

The resistivity of the materials, the accessories and options will have a major impact on the production times and on an operational safety.

For all machines, our DIMECO straighteners can be equipped with strip passback or strip straightener for the welding of high yield strength materials or the welding of double material (particular support, return to flat adjustment).

SIMPLIFIED STRIP INTRODUCTION

The introduction of the strip into the straightener and then into the feeder can be a long and dangerous job. Our DIMECO straighteners are equipped with a roll passback or strip straightener for strip passback or strip straightener for high yield strength materials or the welding of double material (particular support, return to flat adjustment).

On demand, our design staff can design a special straightener corresponding to your particular specification.

The reliability and durability of our straighteners has greatly contributed to the image of DIMECO on the market.
will have a major impact of the cutting line.

**THE MICROFEED® ROLLER FEEDS**

**ABBREVIATED PERFORMANCE DATA**

The cutting line must run under all circumstances. To perform the cutting line, by its own nature, in accuracy and reliability, the feed roller must ensure a uniform and continuous possible time in order to give the tool-sets the maximum working stroke available.

**ACCUMULATION, THE KEY FACTOR**

In most applications the strip feed time is affected by the design, the mechanical release, and hydraulic cylinders or by 2 servo-motors. The DIMECO feeders can reach an acceleration, the key factor, of 25 m/s² and a maximum speed of 200 m/min. This version is essential for fast production changes and special builds. The drive is then powered by a hydraulic motor or by needle bearings and thrust ball bearings mounted on a separate frame. The mobile decoiler loads the coil onto the decoiler mandrel, each cart receiving a coil. In the example, poor wound coils.

The lateral coil keepers or hydraulic or motorized roller arms. (BPH). These keepers are loca-

**SIMPLIFYING THE TASKS OF THE OPERATORS**

**SAFETY IMPROVEMENT**

Our range of 6 double decoilers covers a range of accessories and options for this product is well suited to the decoiling of thick plates and narrow strips, used for example on fine blanking lines. With a standard capacity limited to 5000 kg, it is particularly suitable for the decoiling of thin strips and delicate materials. The pull-out head with standard stainless steel rolls can be directly installed on the decoiler. Such performance levels can only be obtained by careful design of all the feeder components. The body of the rudder, the moving part of the feeder, consists of a castiron structure manufactured by DIMECO. The movement is transmitted to the top roll by an original kinematic chain with 4 pinions. The back-up rolls are supported by backup-rolls. The movement is transmitted to the top roll by an original kinematic chain with 4 pinions. The back-up rolls are supported by backup-rolls.

The lateral coil keepers or hydraulic or motorized roller arms. (BPH). These keepers are located at 120°.

The mechanical quality of the feeder and the performance of its numerical control will have a major impact on the productivity of the cutting line.

**On demand, our design office can design the special decoiler specifically to your own specifications.**

Always listening to their customers, DIMECO have developed a wide range of accessories designed to improve the productivity and 0 reliability of the line and the safety of the operators.

**OPTIONS**

**SIMPLIFYING THE USES OF THE OPERATORS**

**DECOILER-STRAIGHTENER CRADLE**

**HI-SPEC ROLLS**

**SINGLE DECOILERS FOR ONE COIL**

**SAFETY IMPROVEMENT**

**HORIZONTAL DECOILERS**

**DOUBLE DECOILERS FOR ONE COIL**

**DECOILER WITH BILLET DECOILING**

**DECOILER WITHOUT BILLET DECOILING**

**DECOILER WITH BILLET DECOILING**

**DECOILER WITHOUT BILLET DECOILING**
MICROPRO® STRAIGHTENERS-FEEDERS

The MICROPRO® solution is ideal for strip thicknesses of over 1 mm and max. feed pitches limited to about 800 mm. It is reserved for materials having no appearance constraints. The MICROPRO® straightening performance levels are identical to those of the motordriven straighteners from which their design is taken. They allow short line architectures (3 in 1), without loop or with rear loop.

MOTORIZATION AND ACCURACY
The motor drive of the straightener is replaced by a generously dimensioned brushless motor. It can be associated with the OPTIMASTER® and SIMOSTAR® digital controls. All DIMECO straighteners-feeders are equipped as standard with a strip feed measurement sensor (CRM) in order to provide the same feed accuracy as the feeders alone (± 0.05 mm). The rates achieved range from 100 to 150 Cpm, for a max. speed of 30 to 50 m/min.

PINCH ROLLS RELEASE
Efficient pinch rolls release will allow correct operation of the pilots of the progressive cutting tool. On all MICROPRO® units, the basic release function is provided by a pneumatic (POR) or hydraulic (PORHyD) control for lifting the traction rolls and the zero torque setting of the motor. With the (PIN) option, a sharper release is provided by the partial opening of the upper part of the head, by means of two hydraulic cylinders controlled by servo-valves. For more delicate applications (HLE strips), digital servo-release (PIN-A) will be adopted. In this configuration, the head opening cylinders are mounted on an eccentric shaft operated by a servo-motor. All the release parameters are then programmable. The MICROPRO® straighteners-feeders benefit from most of the options offered for the individual straighteners or feeders.
OTHER EQUIPMENT

STRIP SHEAR
This is the heart of the cutting line. Depending on the sections, the types of materials handled and the required cutting rate, a mechanical, pneumatic or hydraulic operation shear will be chosen. The quality of its design will allow a minimal cutting burr and will limit the frequency of sharpening.
Cost effective, the pneumatic shears have been designed for the fast and accurate cutting of thin and delicate metals: aluminium or polished stainless steel, copper, silicon steel, etc. They are limited to sections of less than 650 mm². The hydraulic shears are used for heavy sections or high yield strength strips. They can be equipped with a hydraulic hold down. Very fast, the type 1730 crankshaft type mechanical guillotine shears can achieve rates of up to 200 Cpm. They are designed to be included in production lines. The frame, clear underneath the blades, allows direct stacking of the blanks with no intermediate conveyor.

STRIP END SHEAR
Recommended for wide or thick strips, the addition of a shear after the straightener or feeder allows the strip ends to be cut off in complete safety. The shear helps to reduce the production changeover time: it allows easier removal of the cutting tool and facilitates the recoiling and joining operations. Available in widths of 300 to 1525 mm.

STACKERS
DIMECO offer an economical range (GL) of simple and effective stackers. The length of the stacked blanks can reach 5 m, with width adjustable up to 2000 mm. The stacker can be completed with a pneumatic cylinder jogging device (DDT). The stack is built up on one or more elevator tables (TEX) equipped with a servo-control for automatic stacking at constant level.

EDGE TRIMMING SHEARS AND SCRAP CHOPPERS
For shearing the cutting scrap, we build pneumatic 1708 and motor-driven 1716 mechanical lever shears.
DIMECO also offer type 1735 edge trimming shears and motor-driven scrap recoilers.

P/A PNEUMATIC GRIPPER FEEDS
DIMECO Alipresse have distributed the products of the American manufacturer P/A Industries for 20 years.
The P/A 1623 pneumatic feed provides a high number of cycles with reduced maintenance. Inexpensive, with simple installation and quick adjustment, it has many applications in cutting and in special machines and tools. It can handle strips a maximum of 2.3 mm thick and 600 mm wide. The feed length cannot exceed 600 mm. The maximum rate is of 360 Cpm. A wide range of options and accessories are available.

MECHANICAL GRIPPER FEEDS
The type 1621 rapid mechanical gripper feed perfectly solves the problems of feeding fast and semi-fast presses thanks to the simplicity of its adjustments, its feeding accuracy and its remarkable performance levels. It can handle strips up to 3 mm thick and 400 mm wide. The feed length cannot exceed 400 mm. The maximum rate is of 1200 Cpm with a feed accuracy of ± 0.025 mm.
YOUR ONE STOP SHOP

Flexible manufacturing systems

Press shop automation

Coil and tool handling

Hydraulic presses