

ESTRO is an Italian company with a consolidated know how in automation for stamping centres;

Dr Saulino, founder, owner and CEO, is an estimated expert in field of mechanical presses and automation .

Dr. Saulino, is not only a technician, he is a well-rounded manager, with excellent commercial skills and able to wear even the blue overalls; but above all it stands out for the correctness towards customers, suppliers and above all collaborators.

Form 1986, year of graduation in mechanical engineering , Dr. Saulino is always working in field of mechanical presses .

All the products of ESTRO, starts, form internal engineering and R&D department, and then are manufactured, assembled en test inside the plant in Marigliano, near Naples, and then shipped and installed in Customer plant.

ESTRO produces and supplies in turn key mode, the following automations and accessories :

- ELECTRONIC TRANSFER for new and existing presses;
- DESTACKER FOR BLANKS, including tailored blanks;
- STRIP COIL LINE, traditional and compact;
- CUT TO LENGHT LINE, with tilting shear ;
- CENTRING BELT CONVEYOR, telescopic in length and wide,
- MECHANICAL PRESSES, C-Frame and H-Frame
- AUXILIARY EQUIPMENTS FOR PRESSES

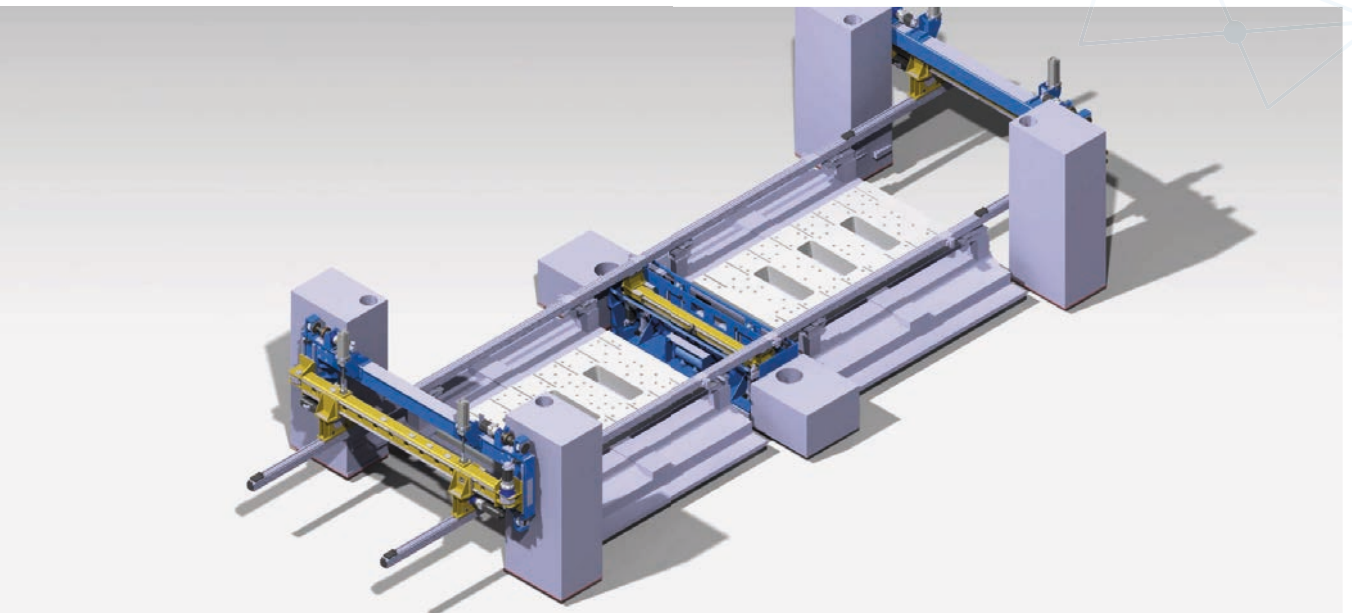
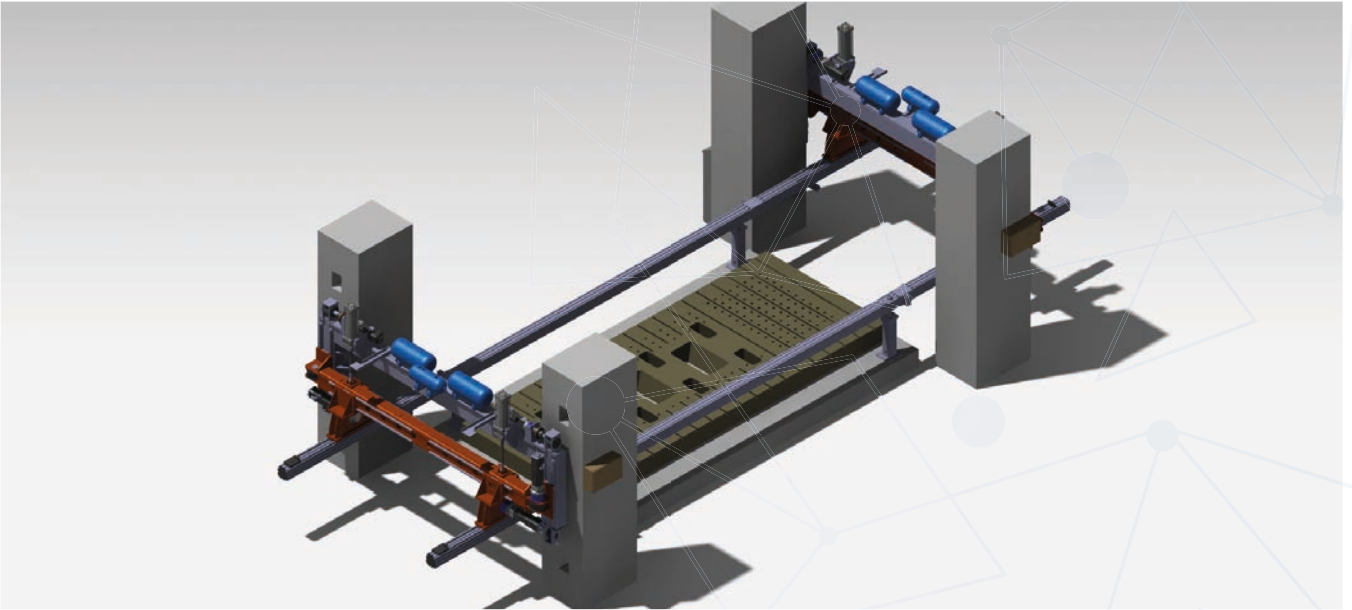
In all applications ESTRO optimizes rate production and set-up timing.

To guarantee to its installations the same performances every day, ESTRO has developed a specific experience in after-sale support , above.

ESTRO offers the following services :

- ENGINEERING
- MAINTENANCE on mechanical presses and automations
- REFURBISHMENT of mechanical presses and automations
- PRESSES ASSEMBLY – DISASSEMBLY
- EXISTING PRESS REFURBISHMENT AND UPGRADE;
- SAFETY UPGRADING
- TECHNOLOGICAL ENGINEERING FOR NEW AND EXISTING STAMPING PLANT
- CONSULTANCY

Electronic Transfer



1. Technical Description

ESTRO designs and manufactures electronic transfers for new presses and for existing presses too.

The single slide press transfers is composed by:

- N.2 mechanical main groups assembled on press uprights (n.1 group endowed with minimum n.2 servomotors e n.1 group endowed with minimum n.4 servomotors)
- N.2 bars, made by aluminium, divided into three parts (idle, central and driven bars)
- N.4 supports for bars installed on moving bolster (manual or automatic change)
- Control panel
- Electrical cabinet

The double slide press transfers is composed by:

- N.2 mechanical main groups assembled on press external uprights (n.1 group endowed with minimum n.2 servomotors e n.1 group endowed with minimum n.4 servomotors)
- N°1 mechanical main group in central uprights
- N.2+2 bars, made by aluminium, divided into three parts (idle, central and driven bars)
- N.4+4 supports for bars installed on moving bolster (manual or automatic change)
- Control panel
- Electrical cabinet

Each transfer drives, by N° 6, 8 or 12 servomotors, the transfer bars according 3 axis X, Y, Z: Feeding/Return, Opening/Camping and Lifting/Lowering.

The transfer bar connection can be manual or automatic by clamps.

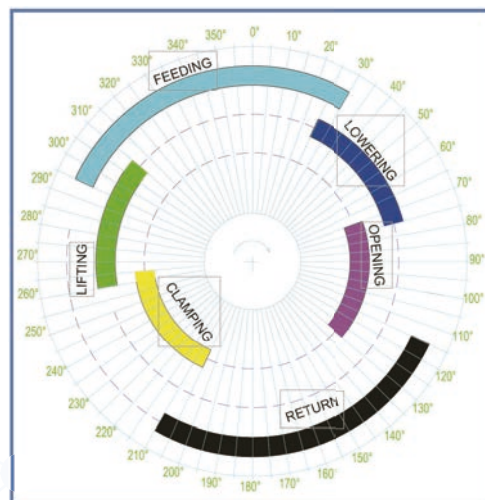
The transfer bar motion is synchronized, instant by instant, to press slide motion. In this way it is obtained a perfect simulation of a mechanical transfer with flexibility of an electronic transfer, allowing adjust strokes, speeds, accelerations, angles, etc.

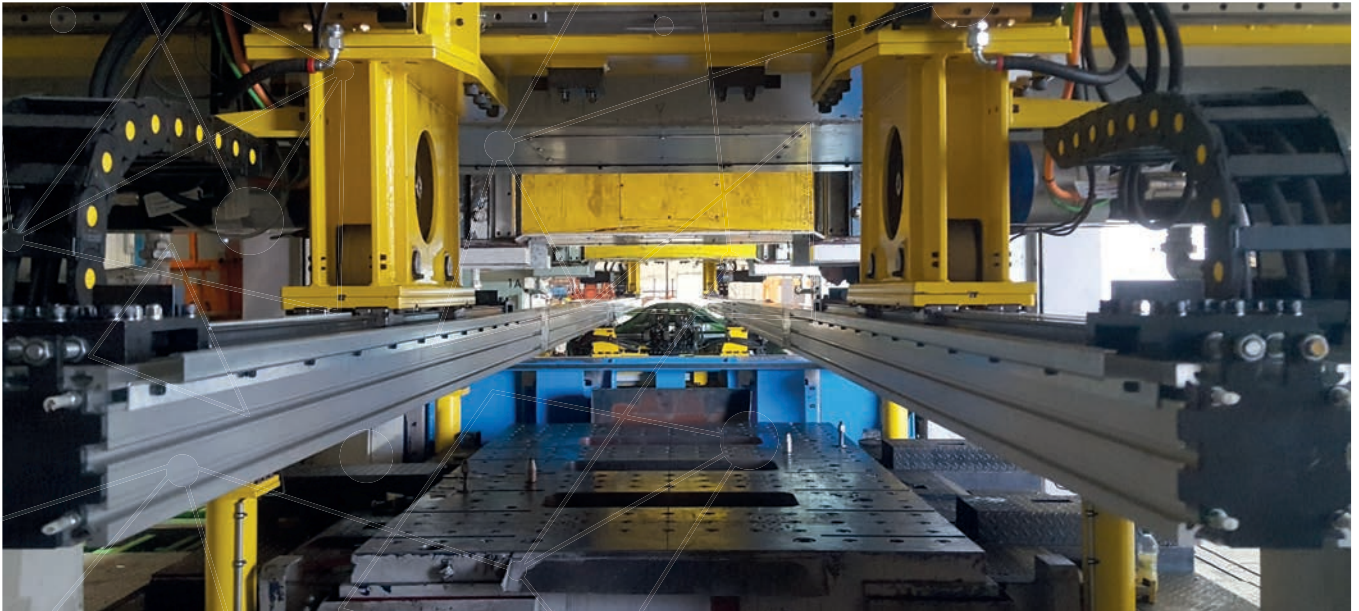


2. Indicative Technical Characteristics

CHARACTERISTICS	Unit	D3
Feeding/return stroke (max)	mm	until 2400
Clamping/opening stroke (max)	mm	until 1200
Lifting/lowering stroke (max)	mm	until 400
Distance between closed bars (min)	mm	from 500
Distance between opened bars (max)	mm	until 5500
Number of feeding per minute (max)	min ⁻¹	until 50
Max working load on bars (grippers included)	kg	until 400
Bar Section	mm	90x90 or 135x135 or 180x180 or 160x230

Following sketch is a typical cyclo-diagram of transfer motion according to mechanical press angles

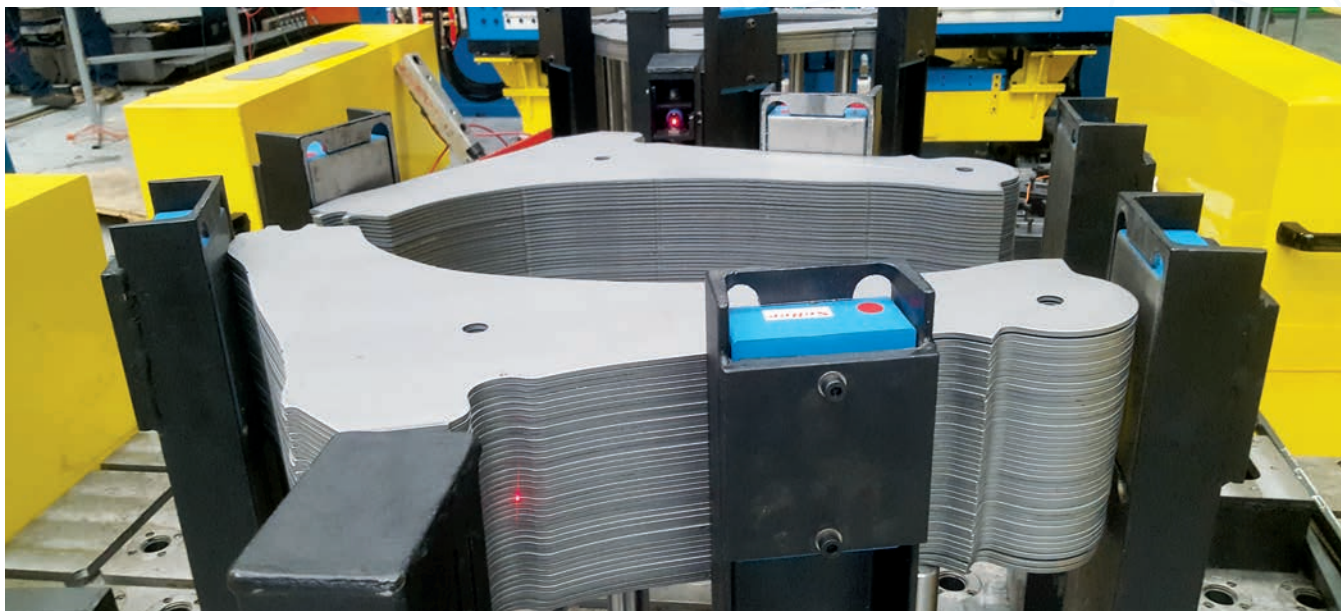




Easy To Assembly



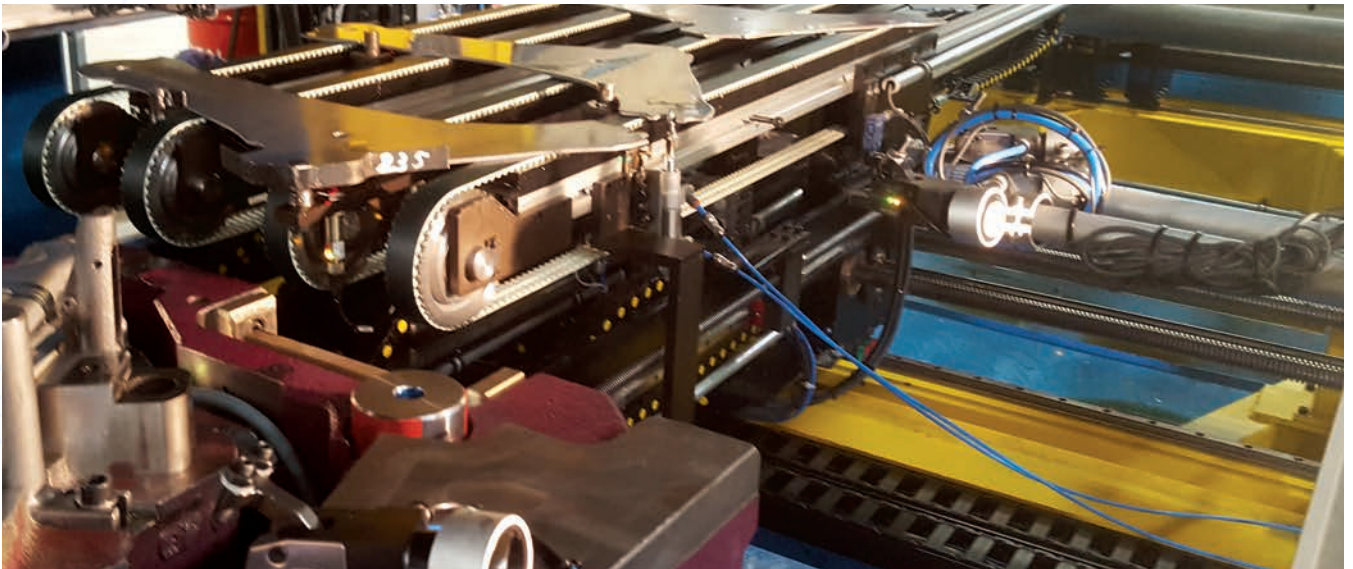
Blank Destacker



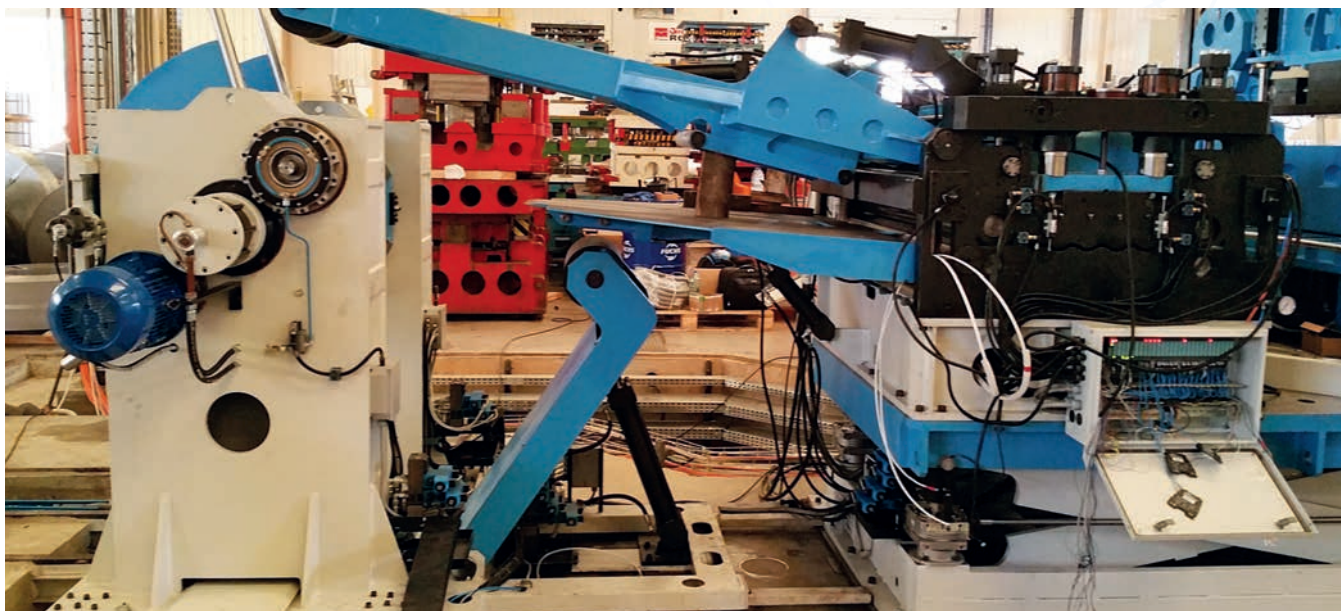
ESTRO designs and manufactures automatic destacker for each type of banks (rectangular and irregular) .

ESTRO destacker has the following advantages:

- Processes until 2 blanks per time ;
- Allows multiple banks ;
- Is equipped with a very engineered teethed belt and centring end stoppers .
- Using cartesian arm or robot
- Blank lubrication cabin



Strip Feeding Lines



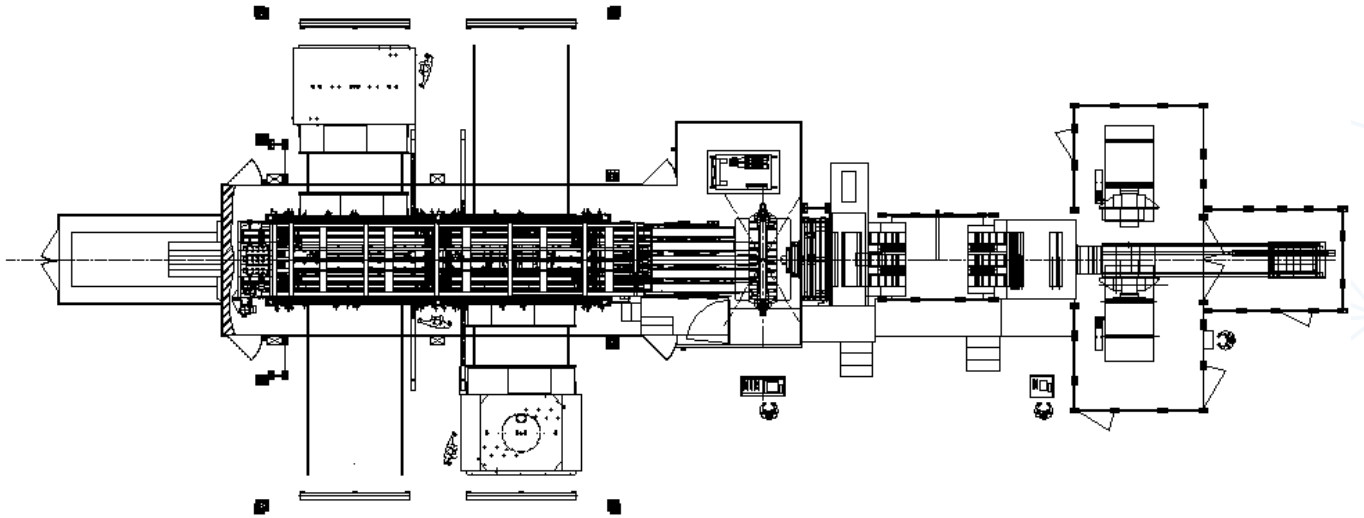
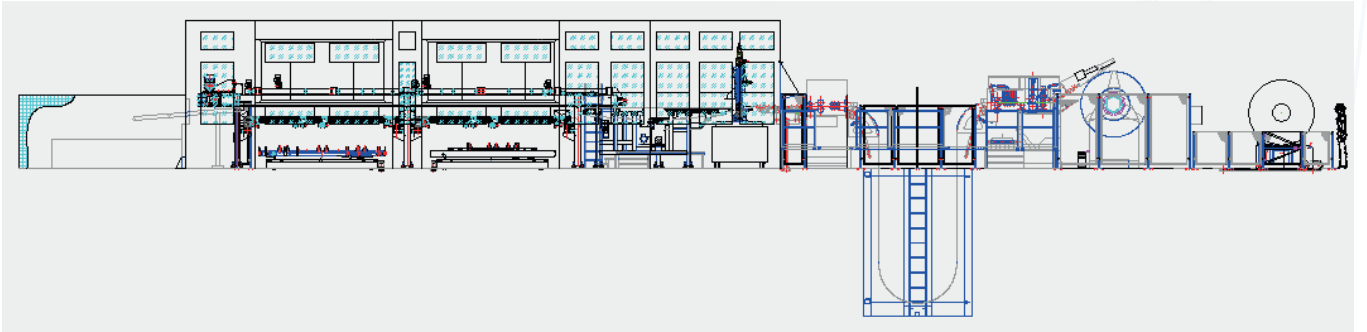
ESTRO introduced a very important innovation in compact coil line : MICROFEEDER on press moving bolster

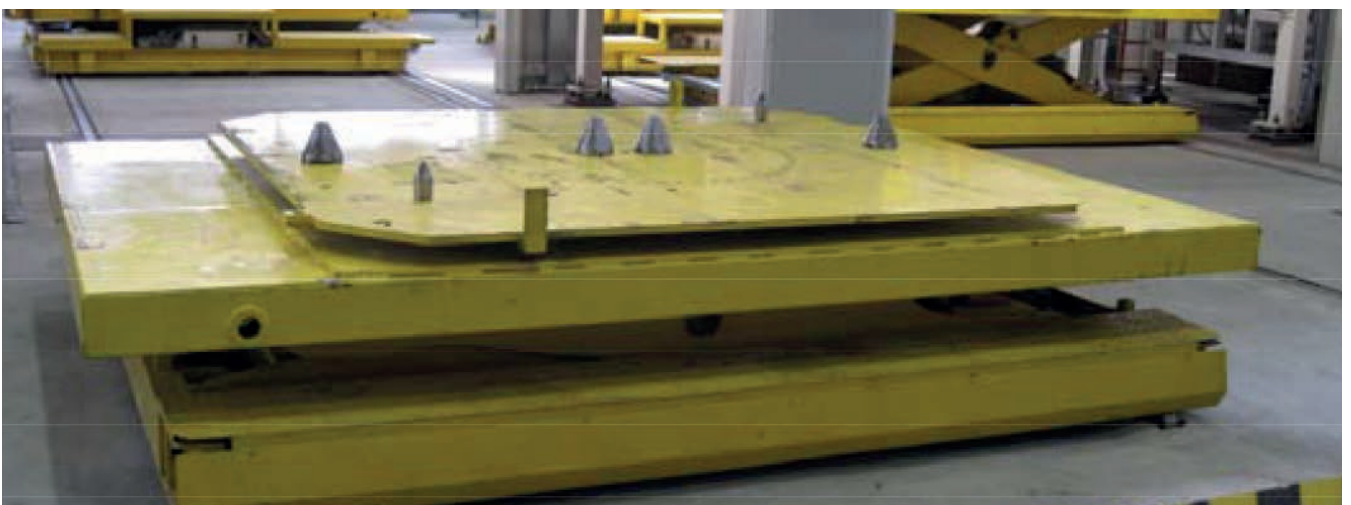
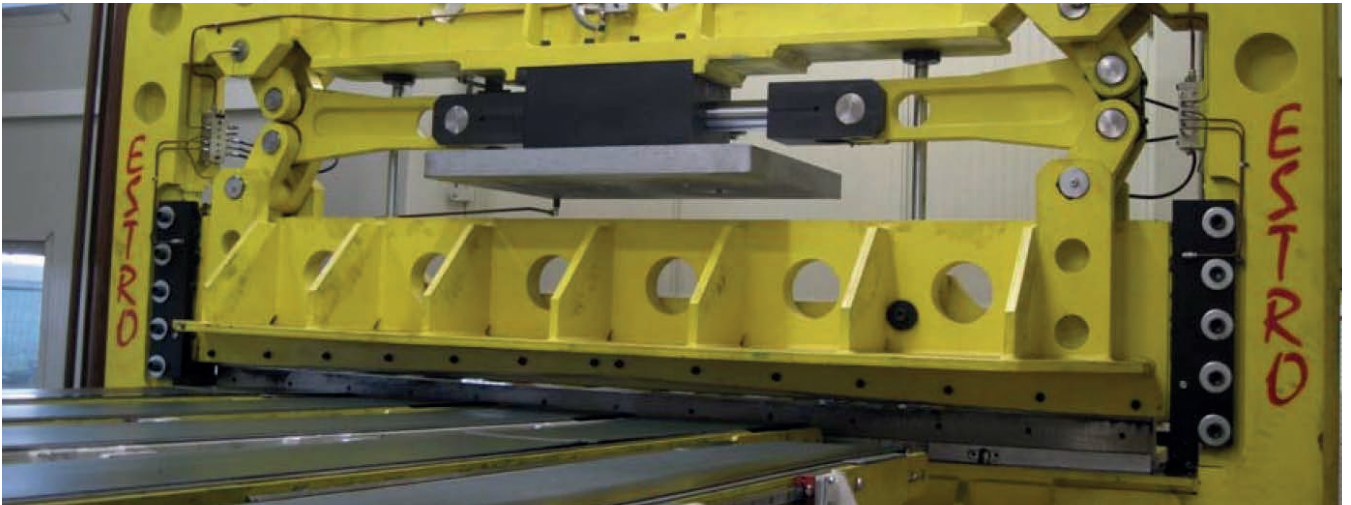
The microfeeder assures :

- that the full length of strip can be used until the end , - very high pitch precision



Cut To Length Lines

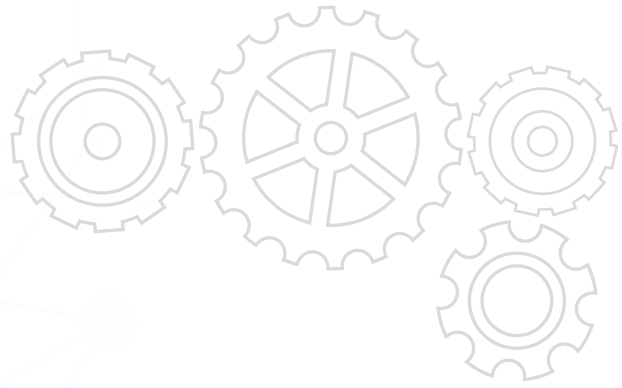
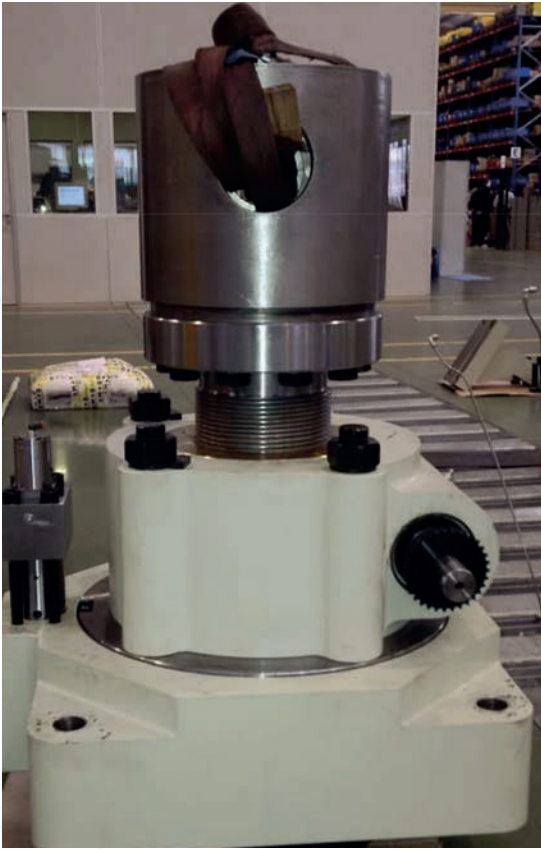




Maintenance & Refurbishment

Estro offers a complete services of maintenance and refurbishment on existing machines :
new motors for variable speed in new consumption class , safety components , necessary inter-
faces , engineering layout , spares , new PLC and HMI , hydraulic clutch brake , CE compliance , over-
load tests with electronic and certificate load cells , parallelism and orthogonality tests , upgrade of
fix bolster plate in moving bolster plate , new press components etc.





Second Hands Presses And Other Machines

Estro offers , on second hand machines , a complete services , not only the sale , but the complete service of disassembly ad reassembly , with compliance of CE mark and necessary upgrades to follow the customer requirements ; new motors for variable speed in new consumption class , safety components , necessary interfaces , engineering layout , spares , new PLC and HMI , complete refurbishment .





Some Realizations





Robotic Tandem Line



In India



Where We Are

Offices and Workshop:

Via Masseria Mautone N.12 – 80034 – Marigliano (NAPOLI) – ITALY

GPS : 40°54'20" Nord ; 14°27'2"



