

AUTOMATION

- **SCRAP SHEAR MACHINE**

The main function of the scrap shear machine is to reduce scrapped profiles, both size-ways (by squashing them) and length wise (shearing them) to allow for their easy, inexpensive manipulation.

Feeding of rejected material takes place by means of a conveyor belt system placed in spots that can be easily accessed by the operator, who has to put down the rejected element, or near to the evacuation belts of the cutting bench. Transport of the scrap profiles then takes place by means of conveyor belts, or of big collection boxes.

- **STACKER**

The stacking system is one of the most important instances of automation in the aluminium cycle. The machine is used to deposit inside crates profiles that are ready for the thermic aging treatment.

The operation can take place by interposing - between the layers of profiles – iron, aluminium or cardboard slats, depending on one's requirements, and the kind of profiles.

- **DE-STACKER**

The stacking system is here employed to extract the profiles from the crates by means of slats. The layer of profiles is then deposited on conveyor belts so that it is then conveyed to the packaging station. The slats, instead, are conveyed into a recovery system, which recovers and deposits them into a container. The processing cycle is wholly automatic

- **BASKET HANDLING**

An automatic system for handling and shifting baskets, whether full or empty, by conveying them to the spot where they are to be processed. Said handling system includes a set of roller tables and motor-driven chains, and can be integrated with any basket handling system with automatic storage spaces, aging kilns discharge, or the return of the baskets to the stacker.

- **BASKET LIFTER**

An automatic system for handling full crates coming from the aging kiln, and the empty ones by conveying them again - upon their return- for the subsequent crate-handling stage. This handling system includes a set of roller tables, motor-driven chains and a special overhead travelling crane, and can be integrated with storage spaces for depositing the full and empty crates.

- **BASKET STORAGE**

A hydraulic system for lifting and stacking the empty crates before they are transferred to the loading position. This system allows to save space, by storing the crates one on top of the other, with no manual operations.

This system is installed before the stacker group for the empty crate storage site.

- **BUNDLE STORAGE**

A vertical storage site for receiving a set of various bundles while being formed and while awaiting completion with other profiles. The shifter/lifter is equipped with chains to receive the bundles coming from the packing machine, storing them and shifting them again over to the packaging line, or to a further position.