



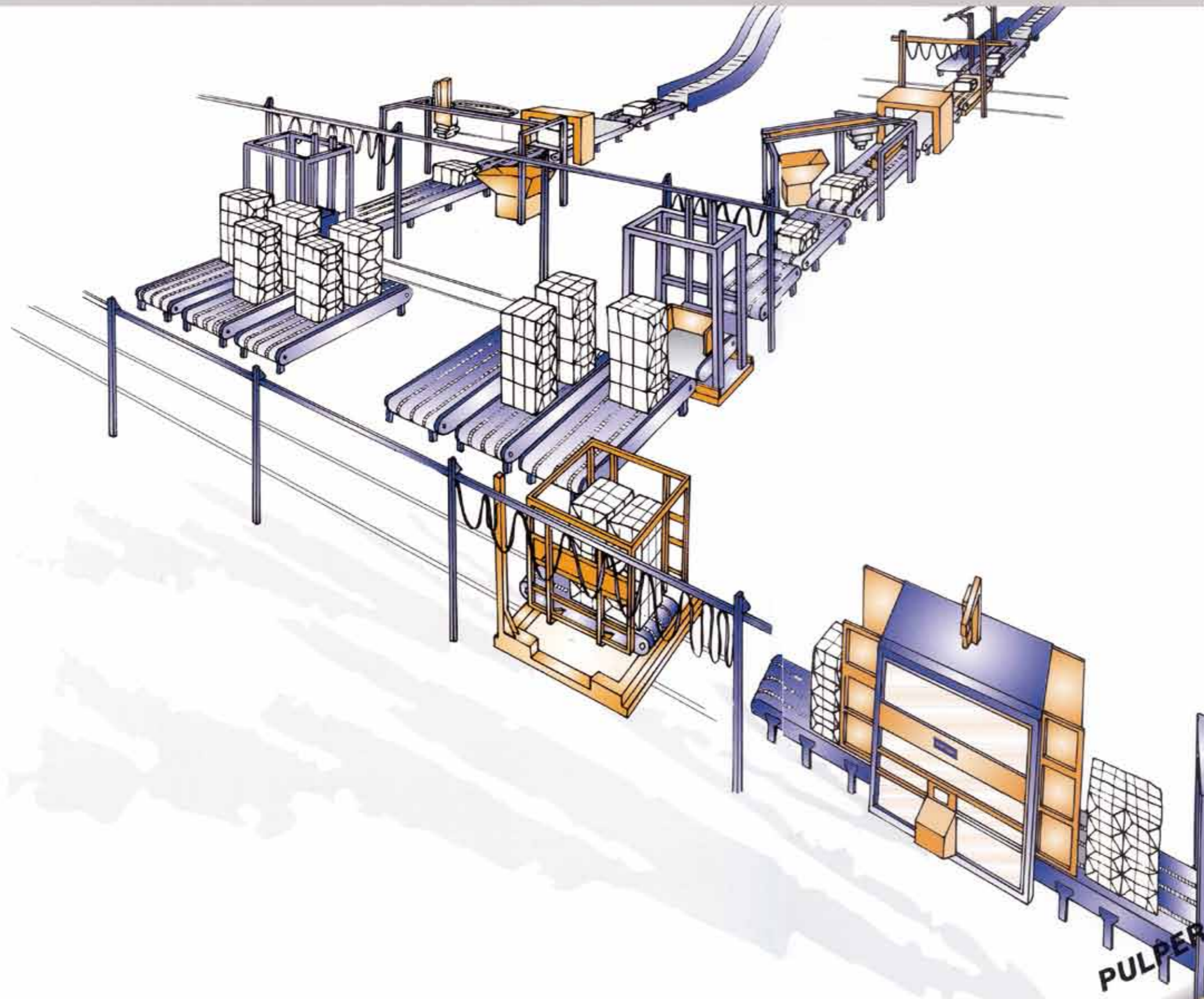
**PULPER FEEDING SYSTEM
FOR PM8 AND PM9**

**HANDLING SYSTEMS FOR
PAPER MILLS**

SICMA S.p.A. delivered the pulper feeding system of the Cartiere BURGO S.p.a., Mill of Verzuolo in two phases, in 1998 and in 2000, in consequence of the decision to install the new Paper Machine PM9. The complete system includes all the equipment for the transport, the storage and the automatic destacking according to SICMA

most recent technology, incorporating the evolution of the automatic dewatering system for the single pulp bales. The automatic managing of the operation, the possibility to change the batches composition in real time, the general safety of the installation, it's easy administration, and the maintenance operations program, represents a constant

in SICMA systems. The system is able to handle totally 150 bales per hour, feeding two pulpers, one for PM8 with batch of 16 bales and the other for PM9 with a batch of 24 bales, for a total daily production of 690 tons.



Pulper feeding system - Cartiere BURGO S.p.a. - Verzuolo Mill



CHARGING AREA, AUTOMATIC DEWIRING, STORAGE AND UNIT DESTACKING.

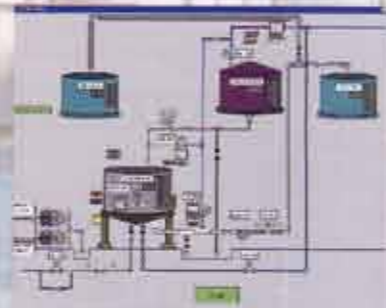
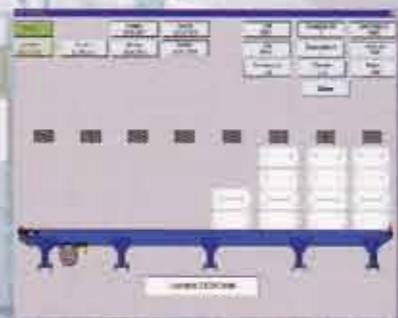
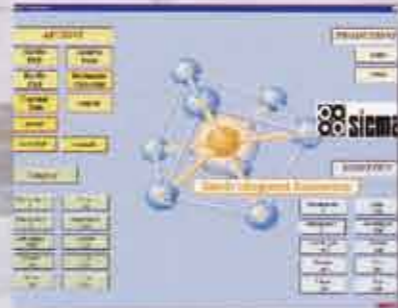
A display system indicates the pulp to be charged, on the basis of the provided production data. The Units, consisting of two stacks of three or four bales, are charged on the high load transport chains conveyors with the steel wires tying them. The steel wires assembling the Unit are automatically cut and extracted by the "Autostripper" for Pulp Bales Unit, the coiled unit wires are ejected to an outside box. The "Autostripper" for Pulp Bales Unit, manufactured by SICMA under licence SuncoTech, is able to work on 25 Units per hour. A two chains conveyor in outlet from the equipment allows the operator to remove the steel wires eventually remaining. The translo-rotating shuttle transfers the two stacks of bales towards the storage three chains conveyors, that can work 6 totally different kinds of virgin pulp, 3 for PM8 and 3 for PM9: the disposition of the different pulp in the storage is logically ordered on the basis of the provided production.

The two destackers work independently, each one being dedicated to its respective feeding line, with the possibility in emergency conditions to operate on either line.

The travelling destacker brings from the three storage lines the different quality of pulp in the quantity necessary to compose the batch, and transfers them to a chains conveyor that feeds the dewiring line.

If the stack is composed of a number of bales exceeding the quantity necessary for the batch composition, the destacker automatically takes the bales needed and gives back to the conveyor the bales that exceed the batch requirement.





PM8 PULPER FEEDING LINE.

The feeding line for PM8, delivered originally as a single row line in 1998, provides the automatic cut and extraction of the steel wires by means of the Autostripper® for single bales manufactured by SICMA under licence SuncoTech. After the Autostripper®, a metal detector is installed to locate the presence of any steel wires on the bale. If this happens, the system requests the intervention of the operator for the extraction of the remaining wire, executed on a lifting group automatically activated. When completed, the operator gives the 'OK' to the advancement by means of a local push button panel. The batch is transferred on the slat conveyor for the consequent pulper feeding.

PM9 PULPER FEEDING LINE.

PM9 feeding line has been delivered in 2000 and provides the automatic cut and extraction of the steel wires by means of the Wire Shark Remover designed and manufactured by SICMA, as evolution of Autostripper®. Wire Shark Remover is able to operate for a production of up to 120 bales per hour.

Following the automatic dewiring system, a metal detector is installed to locate the presence of steel wires on the bale: in this case the reject is transferred to a line that is parallel to the main line. If pieces of wire are found, the bales are transferred to a special chain conveyor to facilitate easy removal. As necessary, and in any case to complete the batch, the operator comes to extract the remaining wires; the bales are re-inserted on the main line by means of the same travelling shuttle. The slat conveyor remains waiting for the pulper signal to discharge the batch.

The electrical system has been supplied as a "turn-key", and includes the power, and control parts by means of PLC, and the supervising system managed by Personal Computer. The supervising system controls each different phase of production, memorises the kinds of virgin pulp, programs the batches, and sends them to the pulpers in the required quantity. The system manages and automatically takes account of every operation carried out, rationalises the charging operations showing on the display the kind and the quantity of pulp requested by the production, and moreover has diagnostic functions and synoptical views of the different areas of the installation, the indications of the alarm and of the maintenance operations.

