

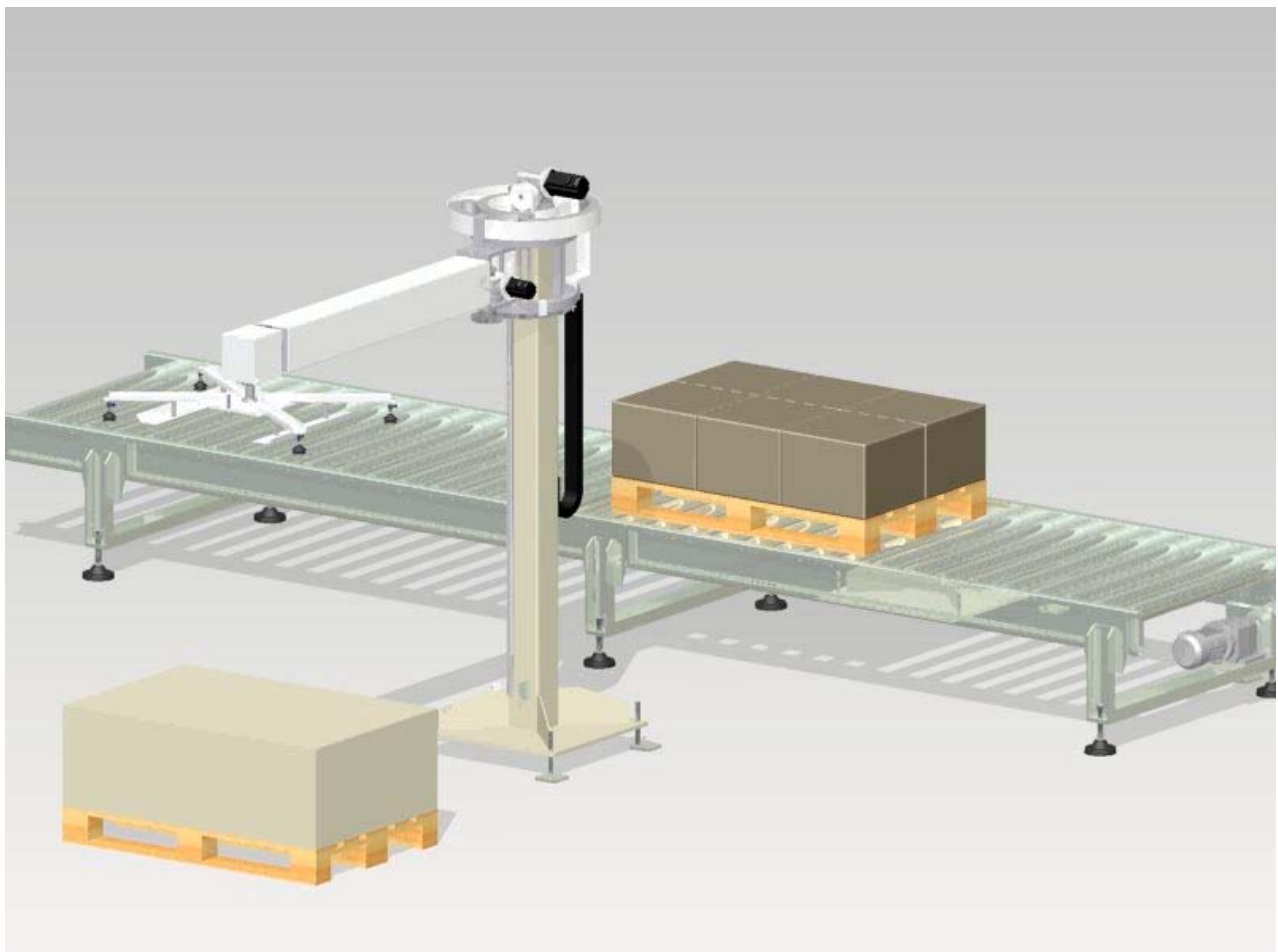
Solaut manufactures slip sheet dispenser for a single and two pallet places. The same machines can be used as pallets dispenser and as pallet and cardboard divider dispenser (the same machine can position both the flap and the pallet).

COLUMN SLIP SHEET DISPENSER

The slip sheet dispenser are made in two models:

- 0-90 model.
- 0-270 model.

The figure on the page shows an application of a 0-270 sheet feeder that picks up the slip sheet from a pallet and deposits it on a pallet positioned on a roller conveyer.



COLUMN SLIP SHEET DISPENSER 0-90

The gripping head with suction cups is fixed to the end of an arm which can rotate 90 ° in the horizontal plane.

The arm moves vertically with a maximum stroke of 3000mm.

A second articulated arm allows to prevent the rotation of the gripping head during the rotation of the arm.

The rotation of the head can be carried out with a cylinder to create particular positioning solutions.

The column slip sheet dispenser 0-90 are made in 3 different versions:

- High performance model with two servomotors The travel speeds and positioning accuracies are high.
- Model with asynchronous motors and inverters. This model has lower performance and costs than the previous model.
- Model with pneumatic arm rotation and vertical translation with asynchronous motor and inverter.



The column slip sheet dispenser 0-90 are available with the following options

- Arm lengths (wheelbase) from 1200 to 2000 mm with maximum strokes from 1700 to 2800mm
- Suction cup gripping head rotation made with pneumatic actuator (optional)
- Possibility to mount grippers for pallets and combined for pallets and sheets of paper and cardboard.

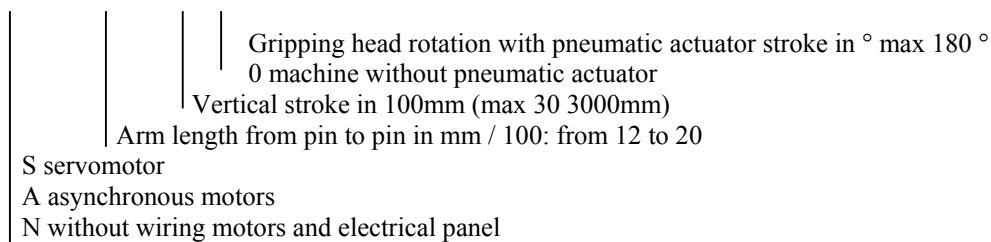
Column slip sheet dispenser features

- Pick-up from the sheet stack and positioning on pallets
- High positioning speed
- Column with base or with brackets for attaching to the palletizer
- Maximum horizontal stroke of 2800mm equal to a rotation of the arm by 90°
- Speeds adjustable from the operator panel
- Possibility to rotate the sheet by 90° during translation
- Supply of the mechanical part only or of the system complete with electrical panel
- Plc Lenze with operator panel and software.
- Movements made with two 400 and 750W servomotors or with asynchronous motors and inverters
- Teleservice

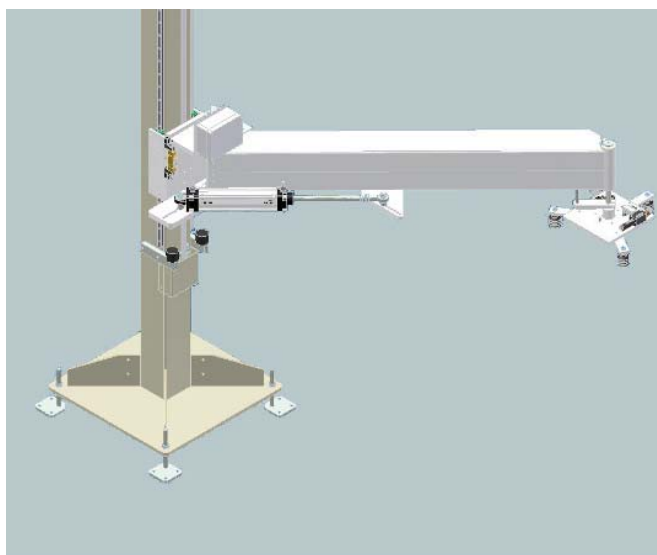
The arm in the electrically controlled versions can be positioned in any position between the ends of the stroke. The positions can be set from the operator panel.

Code to order

METTIFALDA 0-90 - **B** - **H** -



Sheets warehouse



Pneumatic arm rotation feeder

The slip sheet dispenser consists of a vertical column, two arms, and by a gripping head of the sheet or pallet. The slip sheet dispenser hooks the sheet by means of suction cups, raises it to a height set by the user and brings it into position above the pallet. The sheet is positioned above the pallet under construction.

The slip sheet dispenser can be equipped with an electrical panel with PLC and operator panel that allow totally autonomous operation. The commands are received through digital inputs or fieldbus (ethernet, profinet, profibus, ethercat):

Pick the sheet
Puts the sheet back on the warehouse
Place sheet on pallet
End of operation and parking

The output signals are:
machine ready
machine in alarm
end of sheet positioning

The machine consists of the following essential elements:

Vertical column where two linear guides are mounted, on which a trolley slides. The trolley is moved by a Panasonic 750W servomotor mounted on a Bonfiglioli worm screw gearbox. The vertical translation speed is adjustable via the operator panel. The height of the standard column is 2935 mm and can be varied according to customer needs. The standard vertical stroke is 2000mm.

Sheet hooking group consisting of a trolley with two arms hinged which support a gripping head. Four suction cups are mounted on the gripping head, two of which are mounted on pneumatic cylinders to leaf the first layer from the underlying ones avoiding to move more than one sheet at a time. The arms rotate up to 90 ° through a gearmotor, creating a horizontal translation of the sheet up to 2800 mm. The gripping head may not rotate during translation so as to keep the sheet parallel to its initial position. If the sheet must be rotated 90 °, simply move the fixing hole of the reaction arm of the gripping head plate. The gripping head is floating vertically: by resting on the pallet it allows to detect the position of the first sheet to be hooked, in order to have extremely fast positioning.

The sheet gripping unit is floating vertically to stop the machine in case of contact with the pallet or sheets stack.

Electrical panel with PLC model c300 Lenze and Operator panel model Weintek. It also contains the drives for servomotors or inverters for models with asynchronous motors. The machine speeds are settable from the panel.

The gripping head of the flaps can rotate by means of a pneumatic cylinder to make non-standard positions.

COLUMN SLIP SHEET DISPENSER 0-270

The gripping head with suction cups is fixed to the end of an arm which can rotate 270 ° in the horizontal plane; the rotation axis of the arm is aligned with the axis of the vertical column.

The arm moves vertically with a maximum stroke of 3000mm.

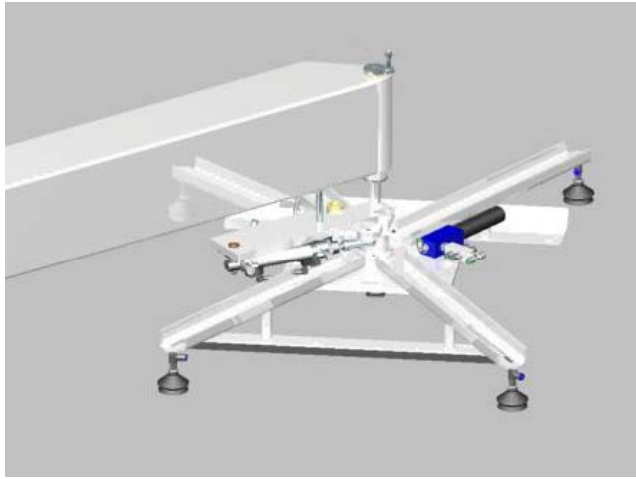
With a belt transmission, the rotation of the arm around the column involves an identical rotation of the gripping head: the sheer therefore does not rotate during translation in the horizontal plane.

The distance between the gripping head and the arm rotation axis can be fixed or mobile; this version allows you to position the pallet divider on multiple pallet formats, without changing the position of the machine.

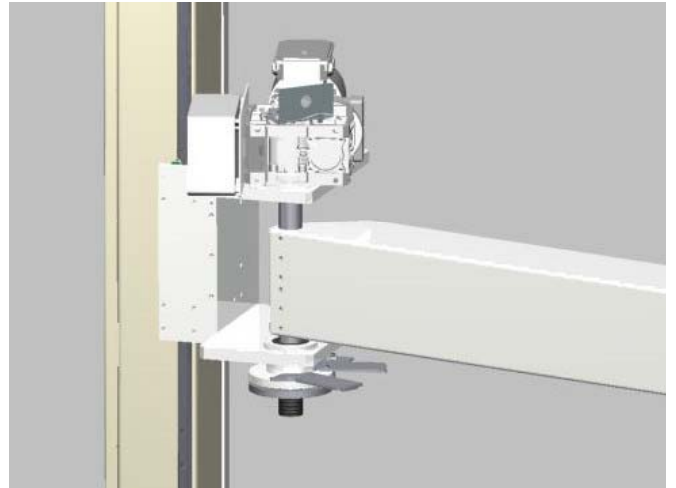


Column slip sheet dispenser 0-270 are made in different versions:

- Arm lengths with wheelbase from 1200 to 2000 mm with maximum strokes of 2400 and 4000mm respectively
- Translation of the gripping head with pneumatic actuator



Gripping head



Trolley with arm rotation control

Column slip sheet dispenser features

- Pick-up from the sheet stack and positioning on pallets
- High positioning speed
- Maximum vertical stroke 3000mm
- Column with base or with brackets for attaching to the palletizer
- Maximum horizontal stroke of 4000mm equal to a rotation of the arm by 180 °
- Speeds adjustable from the operator panel
- The sheet does not rotate during arm rotation (optional)
- Supply of the mechanical part only or of the system complete with electrical panel
- Plc Lenze with operator panel and software.
- Movements made with two 400 and 750W servomotors or with asynchronous motors and inverters

The arm can position itself in any position between the ends of the stroke. The positions can be set from the operator panel.

The system consists of the following essential elements.

Vertical column where two linear guides are mounted, on which a trolley slides. The trolley is driven by a Panasonic 750W servomotor or by an asynchronous motor with inverter mounted on a Bonfiglioli worm screw gearbox. The height of the column is made according to the customer's needs. The vertical stroke is also made according to customer needs.

The arm rotates by means of a gearmotor equipped with a 400W Panasonic servomotor. A toothed belt transmission can be keyed to the shaft of the arm gearmotor which means that the gripping head does not rotate with respect to the column. The sheet is positioned on the pallet with the same orientation as the sheets warehouse.

Four suction cups are mounted on the gripping head, two of which are mounted on pneumatic cylinders to leaf the first sheet from the underlying ones avoiding to move more than one sheets at a time.

The sheet gripping unit is floating vertically to stop the machine in case of contact with the pallet or sheets stack.

To extend the operation of the machine, it is possible to translate the pin of the gripping head with a pneumatic cylinder. The stroke can be increased from 50 to 250mm.

Electrical panel with PLC model c300 and Operator panel model Weintek. It also contains the drives for servomotors or inverters for models with asynchronous motors. The machine speeds are settable from the panel.

Code to order

METTIFALDA 0-270 _ - **B** _ - **H** _ - _

				A with gripping head anti-rotation device
				P with pneumatic actuator for gripping head rotation
				N gripping head fixed to the arm (rotates together with the arm)
				Vertical stroke in 100mm (max 30 3000mm)
				Arm length from pin to pin in mm / 100: from 12 to 20
				S servo motors
				A asynchronous motors with inverter
				N without wiring motors and electrical panel

GRIPPING HEADS

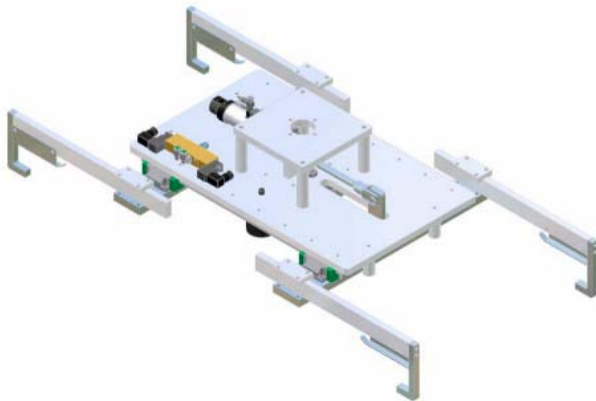
Different types of gripping heads are available for the picking of sheets of paper, cardboard pallets and combined cardboard pallets.



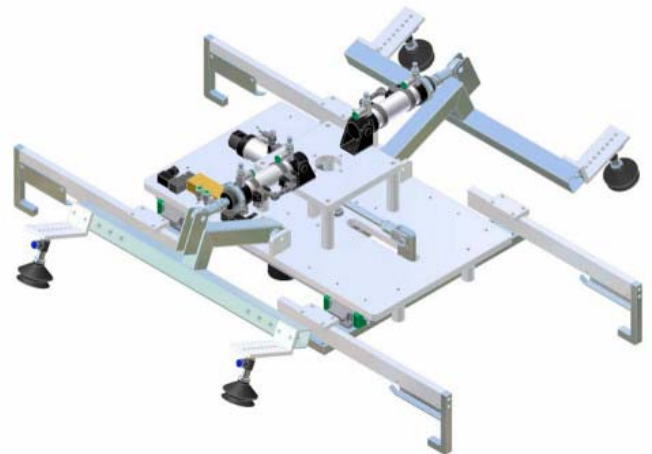
Sheet gripping head



Sheet gripping head with cylinders



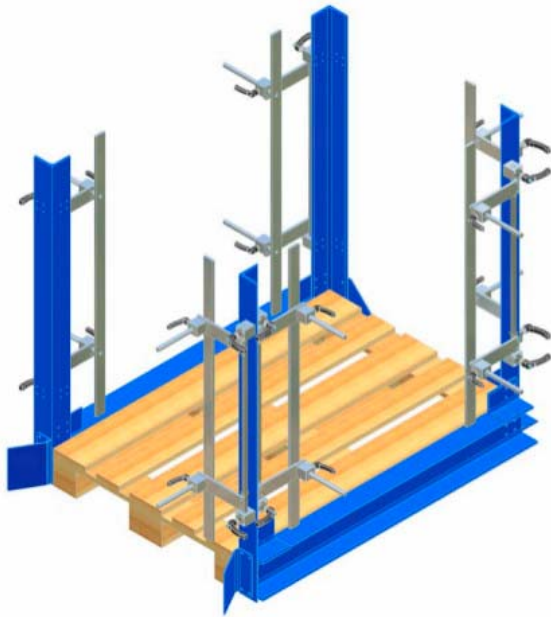
Europallet gripping head



Europallet and sheet gripping head

SHEETS WAREHOUSES

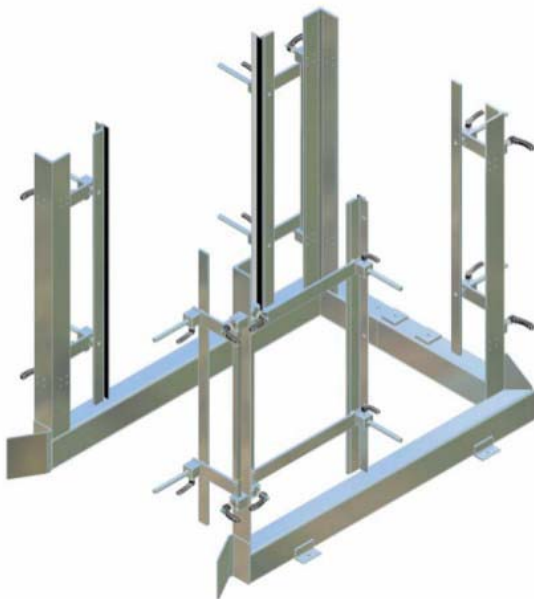
Different types of warehouses are available for containing the pallet slip sheet.



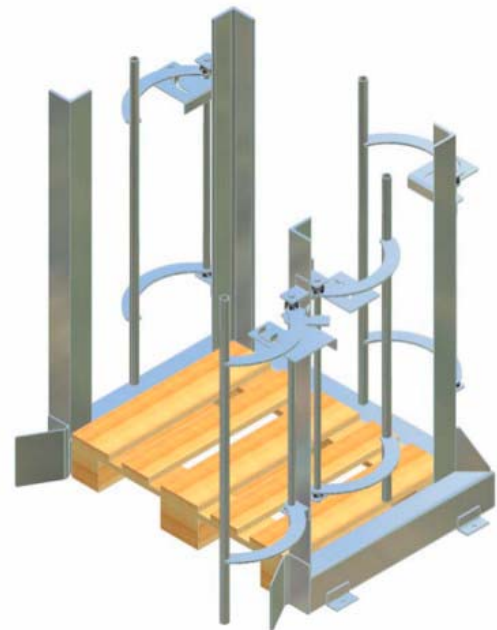
Warehouse 1200x800



Warehouse 1200x800



Warehouse 1200x800 adjustable



Warehouse 600x800