



TETRYX

Automatic material sorting station

TETRYX is an automatic material sorting control unit that allows multiple utilities (hoppers, bins, etc.) to be connected to multiple collection points (silos, day bins, etc.) up to a total of 24 points, both at the inlet and outlet, completely automating the material conveying. The machine consists of an input section (many to one) and a similar mirrored output section (one to many).

OPERATING PRINCIPLE

The central pipe of the inlet station rotates and is quickly and precisely positioned at one of the inlet pipes regularly arranged around the machine's axis of rotation and then hermetically connected to it. Simultaneously and in a similar manner, the central pipe of the outlet station is hermetically connected to the selected outlet pipe. The two central pipes too, which are free to rotate relative to each other, guarantee a hermetic vacuum seal.



MAIN FEATURES

TOTAL CONFIGURABILITY

Tetryx has been designed to make the distribution of materials within production plants completely flexible and modular: the number of inputs and outputs, determined by the configuration of the system, can be configured with total freedom thanks to the possibility of having multiple stations in series. According to requirements, the machine can be configured with horizontal or vertical element layout, and versions are available for connecting multiple utilities to a single utility and vice versa.

HIGH EFFICIENCY

Equipped with a low-consumption and high-efficiency 0.75 kW brushless motor, it guarantees a positioning time for connection to the selected tubes of less than 2 seconds without vacuum loss.

POSITIONING ACCURACY

Tetryx can position the central connecting tube with extreme positional accuracy thanks to a high-precision optical encoder.

RELIABILITY

The high-precision construction of mechanical parts, the control with PLC and the related commercial sensor technology guarantee absolute reliability.

ACCESSIBILITY

Thanks to its design, access to all its main parts is quick and easy, facilitating maintenance procedures.

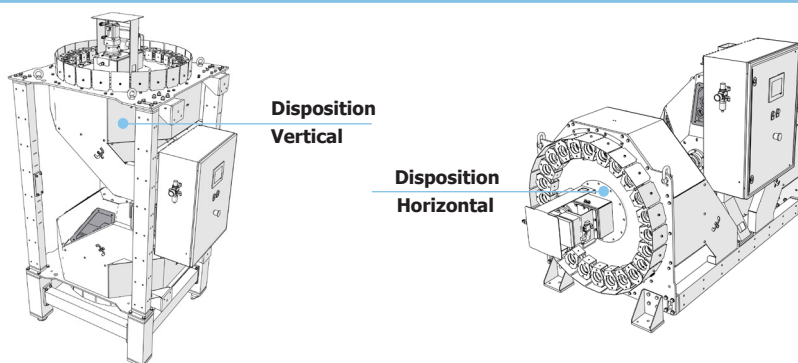
SAFETY

No risk for the operator. Moving parts are not accessible without the use of dedicated tools to dismantle the machine.

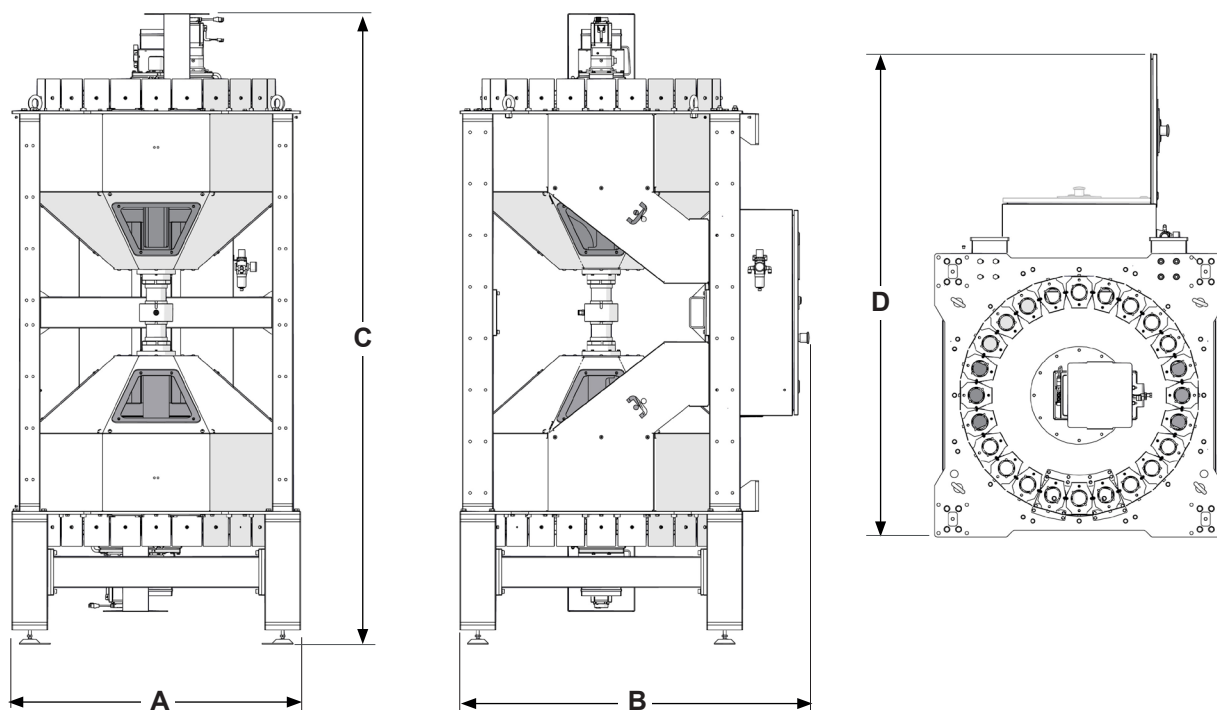
INDUSTRY 5.0 & IoT

All SYncro machines are ready to be integrated with third party supervisory controls and ERP systems using the latest generation of OPC-UA protocols as standard.

CONFIGURATIONS



TECHNICAL DATA



Model	TETRYX Vertical	TETRYX Horizontal
Dimensions A	1125 mm	2320 mm
Dimensions B	1360 mm	1225 mm
Dimensions C	2450 mm	1445 mm
Dimensions D	1890 mm	1755 mm
N° Connections	16 - 20 - 24*	
Input diameter	max 76 mm	
Output diameter	max 76 mm	
Voltage/Frequency	400 V / 50-60 Hz	
Total power	0.2 KW	
Weight	360 Kg	
Temperature range	5°C - 40°C (41°F - 104°F)	

* 24-outlet configuration only possible with maximum tube diameter of 60.3 mm