



PEGASUS 3000 Plug Distribution System

Product Description

Modular, versatile, high utilisation with true inspection and rejection and up to 3,000 plugs per minute per line - Pegasus 3000 offers “continuous economic production.....worldwide”

The Distributor (DX)

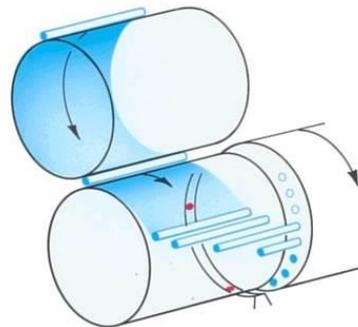
The distributor can consist of one or more modules. Each module consists of one channel and each channel has its own separate motor drive, air supply and control system.

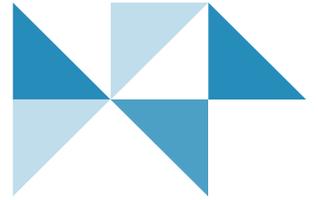
The addition of another channel is simply achieved by fixing a new module into position beside the existing unit and making the necessary connections to the Receiver and communications system. The fluted drum delivery guarantees a positive feed with maximum control, minimum degradation and maximum machine utilisation. The new enhancements on the Pegasus 3000 have taken an excellent product, and made it even better by further improving reliability and performance. Due to the robust construction and positive control, setting requirements are minimal.



Rejection

Any oval, oversized or damaged rods are rejected ensuring optimum tipping performance from the maker combination. The PLC based system utilises a static rejection system incorporating an automatic restart feature. The rotor is supported by a trunnion mechanism to facilitate easy access to the complete rotor assembly.





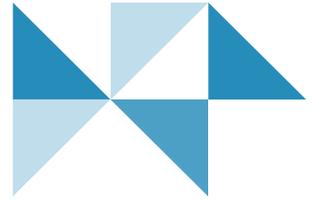
The Receiver (RX)

The new concept receiver offers ease of access, modularity and gentle product handling. Plug movement is converted from longitudinal to vertical with no degradation of the product. A three-high mass flow is then formed on the horizontal conveyor bands. A sensor controls the conveyor movement to ensure consistent rod flow to the Plug Assembler hopper.



Line Dump

In order to maximise utilisation Pegasus Receiver uses the Molins patented line dump gate system. This system allows all filters entering the transmission tube to exit the line if a fault is detected at the receiver. This is extremely beneficial on all filter types, but particularly when running delicate or multi-segmented filters, as it almost completely eliminates the time consuming and costly line jams that plague lesser filter shooting systems.

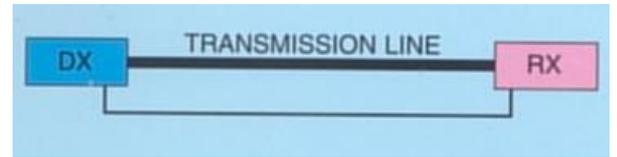


System Overview

The System comprises two basic elements:

The Distributor (DX)

The Receiver (RX)



Up to sixteen distributors may be connected together and run a mixture of:

- Rod lengths
- Rod diameters
- Materials
- Run at different speed

Physical limitations may restrict the number of downdrops feeding the modules, however, it would still be possible for example to feed a bank of 4 modules with 2 different types of filter and these in turn could be feeding 4 cigarette makers, all operating at different speeds.

Data Collection

The Siemens PLC allows the unit to be connected to a network data collection network and production information to be collected and displayed on a factory MIS platform.

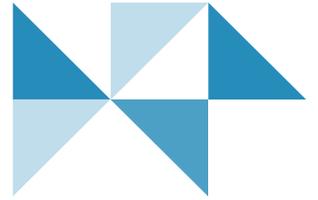
Individual channel parameters and setting can be accessed via the Siemens display located on the front of each channel.

Size Changing

Due to the modular design of PEGASUS 3000, size changes are achieved quickly and easily. Typical times are as follows:

- DX module change 30 mins
- DX module dia. change 15 mins
- DX length change 5 mins
- RX length change 15 mins
- RX diameter change 15 mins





The “no nonsense” solution

Pegasus 3000 has been designed with one simple requirement, “maximum uptime” for the making combination.

Run time of the making combination should not be restricted in any way from the filter supply side, whether it’s from supply requirement or filter quality.

Pegasus 3000, with its inbuilt inspection and rejection system and unique receiving technique, allows a constant supply of good quality filters to the making combination whilst also virtually eliminating the possibility of any “line jams” by the unique and patented “line dump” feature on the Receiver unit.

Speed – “to bring down cost”

Pegasus 3000 running at 3000 plugs per minute per line offers a unique advantage over other systems owing to its ultra-high efficient running, that is the requirement for minimal lines per making machine. Each additional line feeding a making combination requires a low capital investment, cost of installation (inc pipework, cabling etc.) and cost of maintenance. With Pegasus 3000 for the majority of low and mid speed machinery, the requirement of filter lines per machine is the same as for tobacco supply, and that’s just one line per machine.

An example would be 8 off 10K makers, with Pegasus 3000 a single bank of 8 Distributors can feed 8 Receivers, whereas on other systems, 2 banks of 8 channels would need to feed 16 (8 x Twin line) Receiver stations..

Extra’s.....lowest air consumption usage in its class.

Not just an intelligent filter shooting system with the ability to control the speed on each line by monitoring the plugs level in the maker, the Pegasus 3000 can cut operating costs by its dramatically reduced compressed air requirements. Pegasus 3000 can run a single line to machines with speeds up to 10,000cpm, resulting in not only the lower compressed air usage of Pegasus but also resulting in another major saving in compressed air of having only a single line. This saving is also seen on high speed makers where Pegasus Twin Line can support maker speeds of 12,000cpm to 20,000cpm where other systems require triple line or quadruple lines. Compressed air has a real and significant cost to generate, which is why with Molins Pegasus significant savings to this can be made.





Features

- Ease of maintenance
- Quick size changing
- Efficient product inspection / Rejection System
- Patented line dump system
- Robust construction
- Positive plug control
- Minimum degradation
- Operator friendly

Pegasus 3000 specification

Speed Up to 3,000 plugs per min. per line
 Product Range Length 66 – 150mm
 Circumference 22 – 27.3mm

Product Types Wrapped Acetate
 Wrapped Myria
 Carbon impregnated acetate
 Multi-filter (inc .recessed ends and hollow pockets with charcoal.)

Dust Extraction Option when carbon filters in use

Distributor (DX)

Power Requirements 1 KVA per channel
 Compressed Air 0.283m² per min/channel
 Weight 400kg/2 channel

Receiver (RX)

Types Single / Twin / Triple
 Power Requirement 0.5 KVA per channel
 Weight 120kg



The information contained in this literature is intended to convey a fair and reasonable idea of the equipment. Machine weights, power and air requirements are approximate. Power requirements quoted are for machines running in normal and average operating conditions and with balanced loads. Outputs, efficiency, sound and other ratings are subject to machines being correctly installed, located, maintained, operated and fed with appropriate materials in a suitable environment. Continual research and development as well as particular customer requirements may result in some differences without, however, detracting from performance.



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