



Grain Sampler G Series



**Far Beyond
the Ordinary**

Grain Sampler G Series

- Pneumatic grain sampler is an industrial sampler for a wide variety of materials, including wheat, barley, corn, pellets, chips, flakes, granules and powders.
- It provides representative and repeatable samples from ships, rail cars, trucks, tubs, bulk-bags or other vessels.
- The system offers both manual and automatic operation. In the manual mode, it is possible to choose the depth where you can start sampling. In the automatic mode, system starts sampling after the probe reaching the bottom of the truck .
- Possibility to select single suction , double suction or spiral probes.
- High performance vacuum systems can take sample from different depths and transfers to the collector in laboratory for further analysis. Thus, grains at different depth can be analyzed separately and the homogeneity of the purchased product can be determined.
- Vacuuming is provided by a very functional and strong Air Blower ,3 KW.
- 14 CC pump motor and 3 KW Motor Drive System is used in the hydraulic unit and 20 liters of hydraulic oil per minute is transferred into the system. This enables Grain Sampler to move faster and stronger.
- Delivers the Samples up to 100 meters.
- Hydraulic systems contain less mechanical elements, thus minimum maintainance is needed.
- The length of the sample probe is 220 cm and it is made of stainless material. Depending on the need, probes of 250 cm and 300 cm are available as options.
- Telemechanique PLC provides ease of use. Thanks to PLC system ,it is possible to connect Grain Sampler via internet from Supplier's Office .
- Standard handheld joystick operator
- The grain amount which system takes depend on density and the moisture.
- The system can move 160° right to left and 160° left to right (totally 320 °), upwards and downwards as well (0-9.00 m)
- Supplied complete with all hydraulic, vacuum and electric components required.
- A single telescopic arm in addition to the fixed arm extends up to 4,20 meters in G2 Model ,
- Dual telescopic arms in addition to the fixed arm extend up to 5,00 meters in G3 Model

Standart Delivery

- Sampler Main Body
- Internal Wiring
- Bolt frame for Concrete Base, Anchorage
- Receiving chamber
- 220 cm sampling probe
- Contol unit with multiplug and cables
- Hydraulic Unit
- Blower
- Plastic tubing
- Electrical panel,PLC
- Fuses

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Optional Accessories

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|--------------------------------|---|
| Traffic lights | :Informs the driver about the process. Possibility to perform the sampling at night. |
| Camera system | :Lets the user view the sampling process better. |
| Sample data recording software | :Used to store and analyze information about the sample and provider. Communication line between the driver and probe operator. |
| Remote control without cables | :For wireless use. |
| Grain Return System | :Enables operator to return unused and unneeded sample back to a waiting truck . |
| Divider | :Splits sample into 2 equal parts |
| Communication Line | :Easy communication between driver and operator |
| Lighting System at Night | :Ease of use in dark |

Specifications

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|---------------------------------|----------------|
| The Carrier Column Height | :400 cm |
| Telescopic arms operating range | :240 -640 cm |
| Telescopic arms up-down range | :0 cm - 900 cm |
| Horizontal Rotation | :360° |

Hydraulic System

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|-------------------------|--|
| Motor | :3 kw |
| Number of pistons | :4 (Up-down, right and left turning, extending retracting) |
| Pump pressure | :0-60 bar |
| Speed Control Equipment | :By flow restriction valves |
| Overpressure protection | :By pressure valve |

Vacuum System

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|----------------------------|---------------------------|
| Pump type | :Blower |
| Motor | :3kw |
| Air flow | :400 m3/hr. |
| Operating pressure | :700 mbar |
| Operating vacuum | :550 mbar |
| Material Handling Capacity | :6 tons/hr ,70 m distance |
| Operating Voltage | :380 V |
| Operating rpm | :2850 |

Control Unit

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|-------------------------|---|
| Control Equipment | :Telemechanique PLC |
| User interAface | : Remote control, control panel buttons. |
| Remote control distance | :50 m. |
| Safety | :Fuse, Emergency stop butons,PLC controlled security system |