

# Abrasive Bulk Transfer System

## ABRALINE III

### Continuous Level Monitoring for an Efficient Production Process



**Production reliability requires constant vigilance during the entire cutting process. An economical and successful cutting process depends greatly on a constant abrasive flow rate. This fact becomes even more important when cutting brittle materials such as stone, marble or glass.**

#### **Abrasive Flow Monitoring saves Time & Costs**

Our ABRALINE III feeding system precisely monitors the availability of sufficient abrasive closely during the entire cutting process. This protects your valuable material from damage and saves unnecessary costs and time. Its concept assures process stability, security and a very high degree of reliability.

#### **Stand Alone Unit or System Integratable**

The ABRALINE III provides all features to stabilize the cutting process and can be installed in two different ways – as a stand-alone unit or as an integrated component connected to a centralized control system. When used in one or multiple shift operation of automated cutting systems, the ABRALINE III feeding system contributes to the economical use of the entire waterjet cutting system.

#### **200 Liter Storage Tank with Filter Sieve**

The complete system consists of 2 tanks. The upper tank is non-pressurized and it has a load capacity of 200 Liters (approx. 400 kg) of abrasive. It is easily accessible, and the abrasive can be loaded even while cutting by only removing the top cover. The integrated sieve ensures that no contaminated particles may be loaded.

#### **24 Liter Pressure Vessel Feeds Abrasive to Metering Systems**

The lower 24-Liter tank lies directly underneath. It is a vessel containing abrasive sand pressurized by compressed air. The connected flexible hose guides the abrasive directly to the abrasive metering system of each cutting head.

#### **Sensors Monitor Abrasive Availability**

Both of the tanks contain level sensors in the sand exit slot areas. Their signals are constantly monitored in the control station located in the electrical cabinet.

#### **Control Lamp shows System's Status**

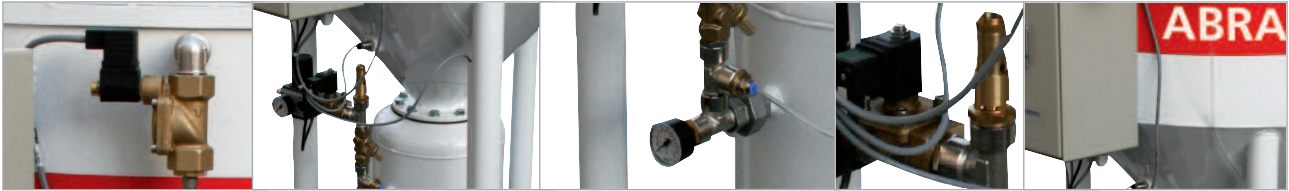
The colour control lamp that is located on the front of the control cabinet and the display right below that lamp constantly shows the status of the unit. Once the sand level is lower than that of the sensor, the pressure vessel opens itself automatically allowing the abrasive to fall in from the upper tank.

#### **Flashing Lamp Reminds you to Fill Up the Storage Tank**

If the abrasive level in the upper tank is lower than the required level, a warning light begins to flash and the appropriate message appears on the display. These two indicators inform the operator to replenish the storage hopper with abrasive sand.

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### Technical Data

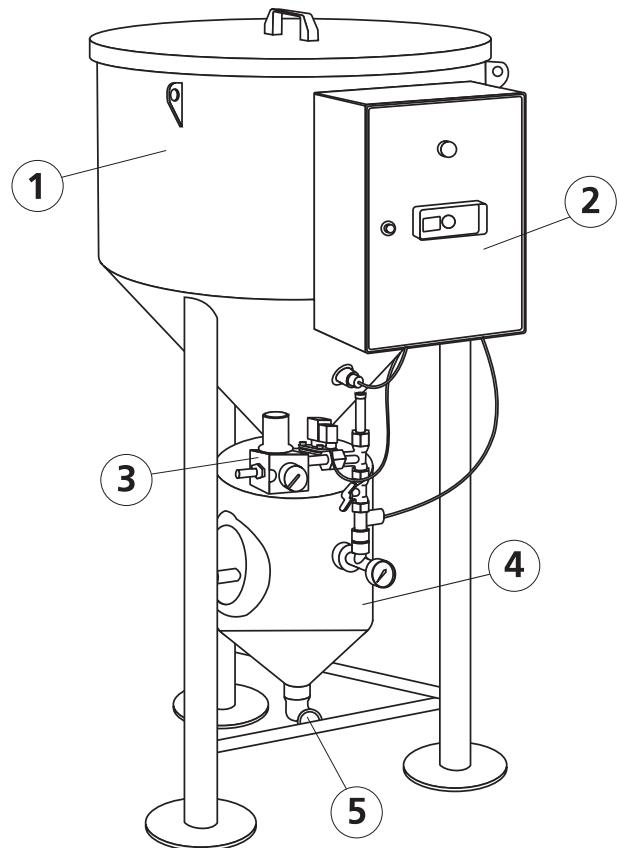
Max. Flow Rate	4.000 g/min
Max. Air Consumption (momentary)	500 l/min
Continuous Operating Pressure	2–4 bar
Max. Operating Pressure (momentary)	5–6 bar
Electric Power Supply	230 V ± 10%
Vessel Volume	24 l
Silo Volume	200 l
Length	700 mm
Width	700 mm
Height	1.400 mm
Net Weight	80 kg

### Abrasive Management System AMS III

The ABRALINE III is also part of the Abrasive Management System AMS III, which is specially designed for the abrasive cutting process to provide the user with a continuous abrasive flow at the highest level of accuracy, reliability and economy. The ABRALINE III tank feeds abrasive to one or up to four FEEDLINE IV units. These in turn provide for the abrasive feed rates of the corresponding number of ACTIVE AUTOLINE™ II Abrasive Cutting Heads. Please feel free to ask for the flyers and brochure of the products belonging to the Abrasive Management System AMS III.

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- 1 Storage Tank
- 2 Electric Panel
- 3 Valve Assembly
- 4 Pressure Vessel
- 5 Outlet



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