

**WinTUBE™**



## **Tube Mill Controller and Viewing System**

Utilizing over 15 years of experience in the tube welding industry, Liburdi engineers developed WinTUBE™, the only single point control and viewing system for the weld process.

The WinTUBE™ operating console connects all welding variables onto one touch screen monitor, including start/stop capabilities, line speed, emergency stops, current, torch height, gas and coolant control. With WinTUBE™ coupled to the patented Puls weld technology, the operator has precise control over the welding current and high speed pulsing allowing them to increase line speeds and reduce reject rates.

WinTUBE™ incorporates Liburdi's Remote Viewing System (LRVS) to give the operator a high definition view of both seam alignment and weld bead profile. LRVS allows for clear viewing in both arc on and arc off state.

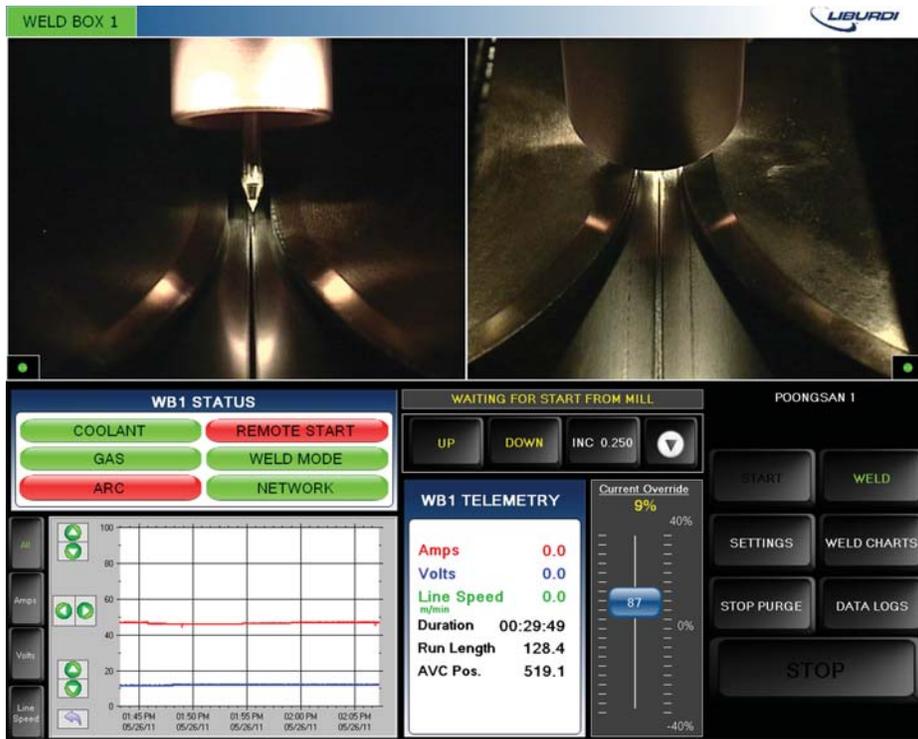
Liburdi's optional Welding Gas Enclosure is custom fitted to the customer's standard weld box. Superior gas shielding is achieved using Liburdi's Advanced Gas Shielding Technology which is integrated into the gas enclosure.

The optional Tube Line Speed Encoder assembly provides precise speed and position feedback to the welding controller. This option allows for instant, accurate, automatic welding parameter adjustments based on a programmed response to a change in line speed.



**Welding Solutions That Work**

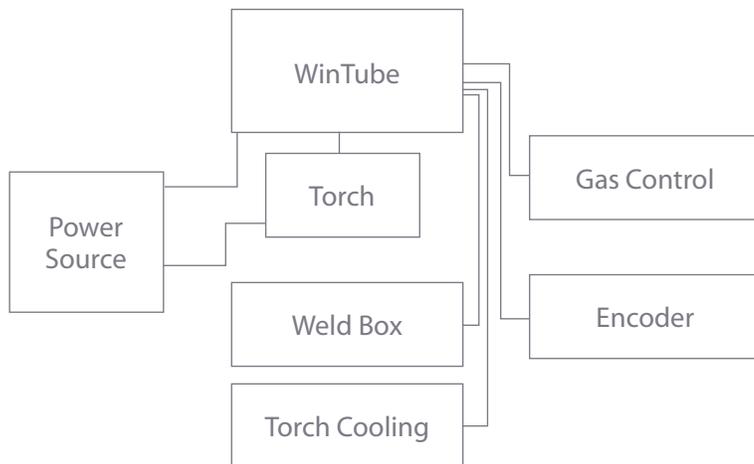
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### WinTUBE™ Standard Features

- Single point of control of the weld process.
- Process controllable parameters include:
  - Amperage
  - Voltage
  - Pulse frequency
  - Pulse width
  - Torch height
- Unlimited programmable weld schedules based on line speed.
- In process amperage override control.
- Live strip charts for amperage, voltage and line speed.
- Data collection of all commanded and measured parameters.
- Digital video recording and alignment overlay of weld viewing cameras.
- All data logs and video are easily transferable to be analyzed and stored offline.
- Fault monitoring and reporting for torch cooling, gas and power supply systems.
- Remote start integration allowing main mill controller to start/stop welding.
- Multiple welding processes supported.

### WinTUBE™ Control Block Diagram



### WinTUBE™ Optional Features

- Motorized torch allowing for automated and programmable torch heights and automatic voltage control (AVC).
- Custom fit weld enclosure with Liburdi Advanced Gas Shielding technology.
- Dual water cooled cameras with iris control for setup and weld monitoring
  - Leading camera for seam alignment
  - Lagging camera for weld bead viewing
- Gas control box with multiple flow meters.
- Water chiller allowing continuous duty.
- Line encoder for precise weld process control.
- IR probe for material temperature monitoring.
- Multiple welding configurations available: Dual Cathode, Preheat.



Welding Solutions That Work