

## FluiBlend™ Bunker Blending – Technical Data Sheet

FluiMix™ has developed FluiBlend™ an In-line blending system that offers many advantages over traditional ratio controlled static mixer systems or in tank blending. Return on investment is typically less than 9 months generated from reduced give away. It offers huge savings and operational benefits to a bunker blender and allows an operator to *Blend On Demand*.

**Viscosity Trim** - FluiBlend™ uses viscosity measurement technology which operates to within *+/- 1% of the viscosity of the blend product an operator wants*. For example a specification calling for a blend viscosity of 60 cps will have an accuracy better than 0.6cSt.

When compared to Traditional Trim Control blenders, the FluiBlend™ could generate savings in excess of \$15/tonne. For a 100,000 tpa production rate this could have *a potential saving of over \$1,500,000 per annum* in reduced raw material costs when compared to other blending systems.

Compared to tradition tank blending the savings can be as high as 30 – 40 USD per MT as well as saving a potential 10 M USD asset!



**Temperature Correction** - FluiBlend™ uses extremely accurate temperature correction technology that recalibrates dynamically in real time to the blend being process and will achieve +/- 1% of the desired viscosity.

**Blending or Loading Rate Flexibility** - FluiBlend™ system develops a negligible pressure drop, irrespective of flow rates allowing a far greater range of loading or blending rates. This allows the operator to *handle any sized vessel* as quickly as possible whilst maintaining product quality.

**Flexibility in Product Range** - FluiBlend™ has almost infinite turndown when compared to traditional static mixer systems. FluiBlend™ system allows a *far wider range* and number of end *product viscosities* to be produced (from high to low viscosity products) without any compromise in either blend accuracy or blend rate.

**Blending on Sulphur Level** - FluiBlend can also be modified to blend away high sulphur batches. It encompasses unique technology to eliminate the error associated with trace water content for inline sulphur measurement. This allows blending to be accurate to within +/- 300 ppm.

**Flow Proportional Sampling & MARPOL Regulations** - FluiBlend™ automatically collects a flow proportional sample for quality control that. This sample fully complies with all MARPOL as well as American Petroleum Institute Metering and sampling standards. FluiBlend™ can be configured to sample your incoming raw materials helping your to assure your product quality from costly sulphur and heavy metal contamination as well as prevent excess water acceptance.

**Direct Tanker Loading** - FluiBlend™ can be jetty mounted, barge, or trailer loaded so that the production can be directly loaded onto a ship without the need for a holding tank.

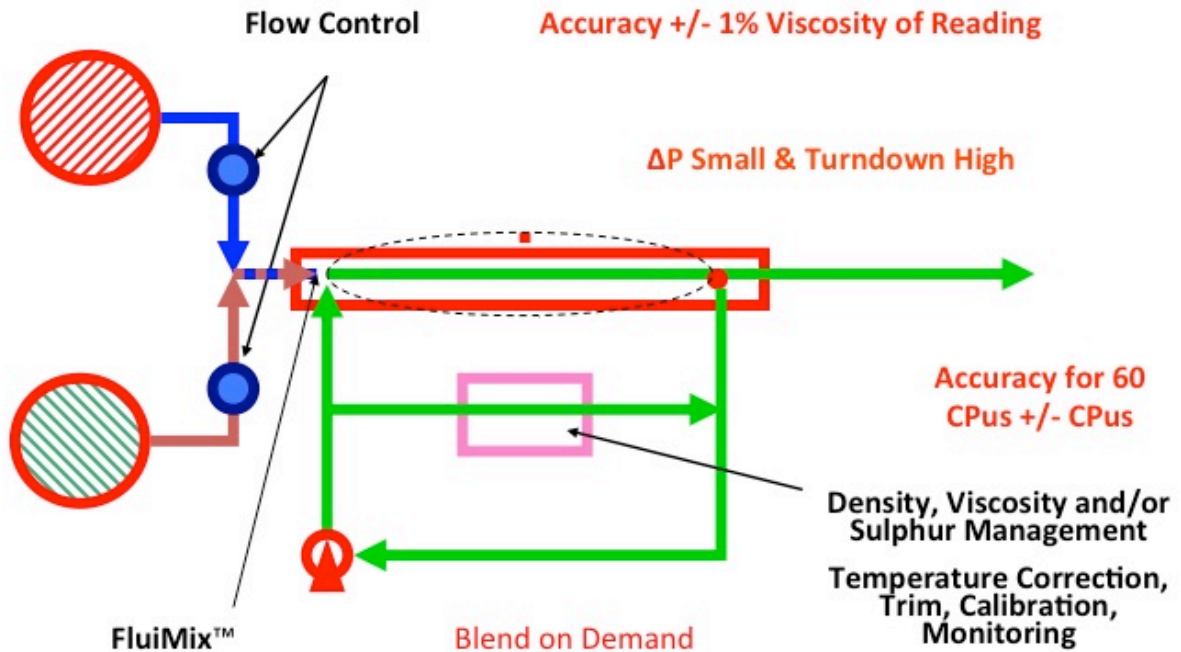
**FluiBlend™ offers potential savings in:**

- Lower Tank usage
- Less Waste and Give away
- Reduced stock control
- Increased raw material turnover
- Minimal losses or flash-off of gas oil in traditional storage tanks
- Improved tank farm utilization and management
- Automatic Bills of Lading
- Improved jetty utilization
- Reduce demurrage costs

The ability to provide API compliant homogeneous and representative samples means that you can guarantee that the product loaded conforms to the loading specification

**Typical PID For a 2 Stream FluiBlend™**

**FluiBlend™ for Bunker Blending**



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