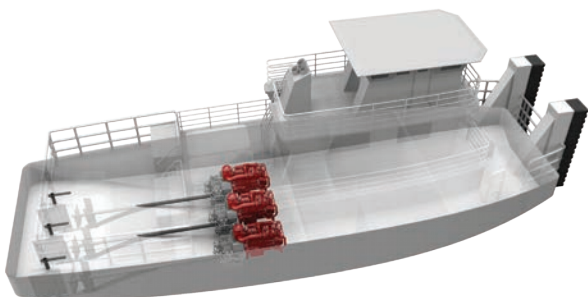




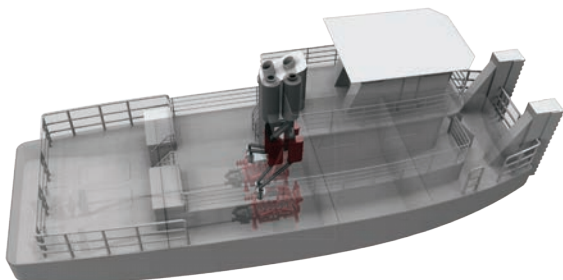
Propulsion Options for the Inland Waterways Fleet





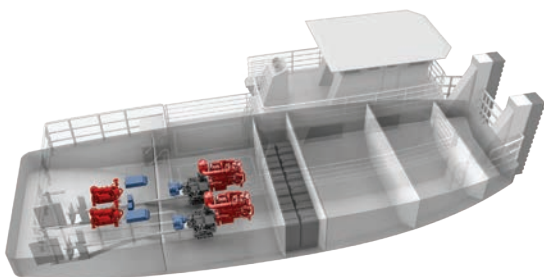
Triple QSK19 Installation

- Low installed engine cost
- Capable of running on a broad range of fuel quality
- QSK19 ReCon engines available with core acceptance for drop in replacement in a repower situation.
- Engine has been proven in workboats with over 10 year track record
- Designed to meet International Association of Classification Societies (IACS) and SOLAS requirements.
- Well suited for a variety of propulsors



Twin QSK38 installation

- Clean emissions delivered through optimized in-cylinder combustion and Selective Catalytic Reduction (SCR)
- Smallest space claim and lightest weight SCR system in the industry
- Improved engine fuel consumption from EPA Tier 3 certified predecessor
- Proven aftertreatment system with over one million units in the field
- Designed to meet the engine life to overhaul without the need for catalyst replacement
- Meets International Association of Classification Societies (IACS) and SOLAS requirements
- Well suited for a variety of propulsors



QSK19 Hybrid Assist

- Utilizing proven Cummins QSK19 and QSB6.7 marine engines
- Provides total vessel propulsion power of up to 2,000 hp from two QSK19 engines rated at 800 hp each plus two AC induction motors producing 200 hp each
- Optimized solution for reduced fuel consumption, reduced service cost and extended engine life
- Reduced carbon footprint by 20%
- Zero emissions when running on energy storage
- Complete solution helm to prop
- QSK19 ReCon engines available with core acceptance for drop in replacement in a repower situation.

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200
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Engineers



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