

# Well Construction

## Frank's Tubular Running Service (TRS) - Casing Technologies

### Centri-FI™ System - Consolidated Control Console

#### Features and Benefits

- Reduces personnel on the rig floor
- Wireless controls eliminates time in red-zone
- Adaptable “safety features” based on configured equipment
- Tablet interface allows for operator mobility and driller and supervisor visibility of equipment status
- Auxiliary Elevator open prevented based on Driller input
- Currently allows for one operator to control 7 pieces of equipment:
  - o COBRA™ CLMA and CLMA-C
  - o VERSAFLO®
  - o Hydraulic Spider / Elevator
  - o Pneumatic Spider / Elevator
  - o Auxiliary / Single Joint Elevator
  - o Remote Tong Systems
  - o Tong Manipulator Arm (TMA) / Tong Pusher Arm (TPA)
- One Function Bypass with 10 second timeout
- Easily tailored / upgraded via software changes



#### Specifications

**Electrical enclosures are rated for ingress protection IP66 and a temperature range of -20°C to +50°C**

Certification number	Markings are as follows
CML 19ATEX1495X <sup>1</sup>	II 2 G Ex db [ib] IIB T4 Gb
IECEX CML 19.0186X <sup>2</sup>	Ex db [ib] IIB T4 Gb
E115512 <sup>3</sup>	Class I Zone 1 AEx db [ib] IIB T4 Gb

**System is rated for ingress protection of IP65 and a temperature range of -20°C to +50°C**

Certification number	Markings are as follows
CML 22ATEX6977X <sup>1</sup>	II 2 G Ex 60079-46 IIB T4 Gb
IECEX CML 22.0109X <sup>2</sup>	Ex 60079-46 IIB T4 Gb
E115627 <sup>3</sup>	Class I Zone 1 AEx 60079-46 IIB T4 Gb



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