

# Well Construction

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

### STAB-RITE™

The STAB-RITE™ is a remotely operated pipe positioning system designed to enhance rig safety and performance during a variety of casing, tubing, drillpipe, and riser applications. The system's powerful jaws maintain control of tubulars, reducing crew fatigue during critical pipe-handling operations. STAB-RITE™ has the capability to move the pipe safely away from the well center until needed and then to reposition the pipe accurately for initial stab.

The purpose of the STAB-RITE ZMS System is to prevent a collision between the top drive or elevator and the STAB-RITE Tool when the STAB-RITE is deployed. It accomplishes this by communicating the position of the top drive and elevator and the status of the STAB-RITE Tool to the Driller and STAB-RITE Operator via a combination of visible and audible alarms.

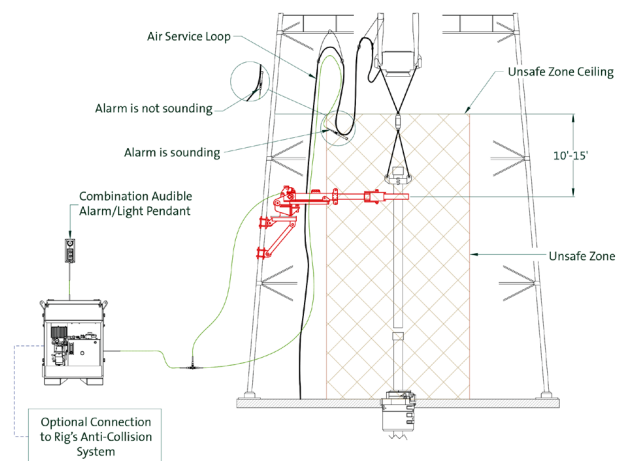
The STAB-RITE ZMS System establishes an "unsafe zone" or "collision zone" whenever a STAB-RITE Tool is in the deployed position. The unsafe zone runs from the rig floor to the "unsafe zone ceiling." The position of the unsafe zone ceiling varies from 10 to 15 feet above a deployed Stab- Rite Tool.

When the top drive or elevator is in the unsafe zone, visible and audible alarms will be activated. Whenever a STAB-RITE Tool is in the parked position, there is no unsafe zone, and the top drive movement does not activate any alarms.



#### Features and benefits

- Utilizing the STAB-RITE™, in conjunction with Expro's remote control elevators, eliminates the need for derrick men
- Engineered with safety features that prevent unintentional tool deployment and accidental release of pipe
- Can reduce crew fatigue
- Comes equipped with remote LED lights and audio alarm
- Paint scheme enhances visibility
- Compliant with the Dropped Object Prevention Scheme (DROPS)
- Can interface with rig zone management systems, as well as with rig hydraulic system
- When stored in upright locked position, the STAB-RITE™ and its derrick interface do not interfere with normal rig operations
- Total rig-up time is less than three hours
- Enhances overall safety of pipe running operations
- Increases thread reliability and decreases cross-threading by reducing misalignment during make-up





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#### Specifications - Stabbing Arm

Weight (less calipers)	1,450 lbs (10 ft tool)
Pipe Contact Points	4
Pipe Size Range	2 3/8 in - 36 in Larger sizes may be designed upon request.
Optimum Mounting Heights	25 ft - 32 ft (singles) 45 ft - 55 ft (doubles and triples)

#### Stabbing Arm Reach

Longer reaches may be designed upon request.  
6 in, 1 ft, 2 ft, and 2 1/2 ft extensions are available to be used in conjunction with any of the tools.

	Minimum	Maximum
4 1/2 ft tool	47 7/16 in	61 11/16 in
5 ft tool	52 9/16 in	69 9/16 in
6 ft tool	60 3/16 in	87 3/16 in
7 1/2 ft tool	75 11/16 in	111 11/16 in
10 ft tool	105 11/16 in	141 11/16 in

#### Specifications - Electric Power Unit

Weight	1,650 lbs
Dimensions	42 in x 42 in x 53 in
Power Requirements	480 volts, 3 phase, 30 amps (minimum)
Variable Displacement	0-6 gpm @ 1,500 psi
Hydraulic Fluid	Tellus 46 Other options are available upon request.

