

FRANK'S EVOLUTION TONG

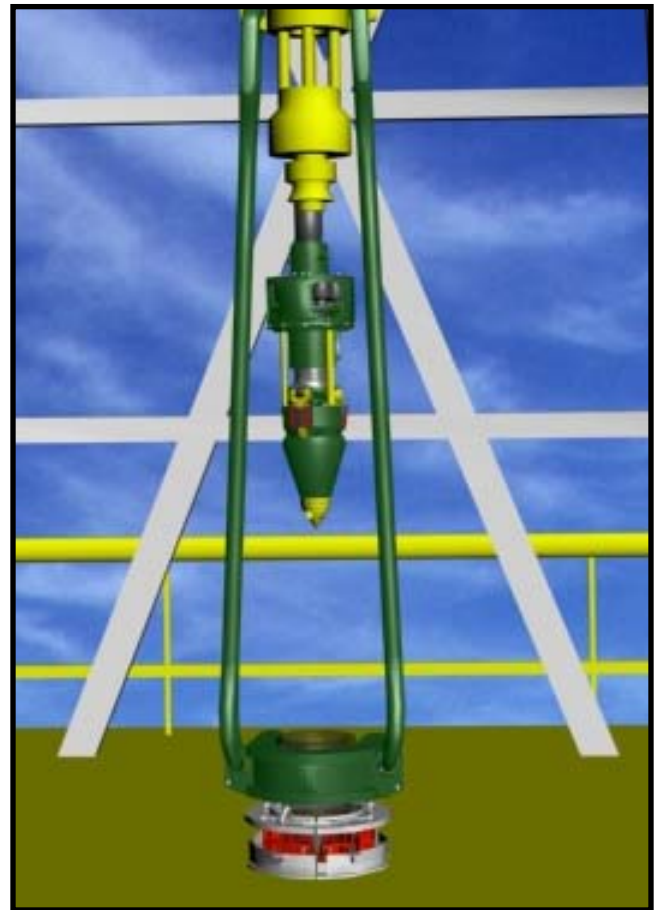
Ensuring a Safe and Efficient Work Environment

In keeping with its mission to provide dependable, technically superior products and services, Frank's has designed and produced the Evolution internal grip tong. The Evolution connects to and is powered by the top drive, eliminating the need for the traditional tong on the rig floor. The Evolution is compact in size and has the ability to double as a fill-up tool when used in conjunction with Frank's patented Mud Saver valve.

Since the Evolution is capable of making-up a variety of casing sizes, separate Evolution models have been designed. The Evolution 24-20 is currently available to make-up 20"-24" casing, while the Evolution 36-26 is presently being developed to accommodate 26"-36" casing.

Features and Advantages:

- Use of the Evolution improves rig floor safety and efficiency by eliminating the need for a power tong and hydraulic power unit.
- When combined with Frank's unique Horseshoe Elevators and Rotary Spiders, the Evolution can run large O.D. casing strings with a minimal amount of rig floor personnel.
- Fast, safe and easy rig-up and removal.
- Capable of handling torques up to 100,000 ft-lb_f.
(May be limited by the Top Drive rating)
- Fill-up provisions are integral to the tool.
- Circulation module is currently being developed.



Evolution, Horseshoe Elevator and Rotary Spider make for a safe rig floor operation

Frank's Evolution Specifications

	Evolution 24-20	Evolution 36-26
Weight*	2,300 lb _f	2,700 lb _f
Length	103 in.	120 in.
Torque Capacity**	100,000 ft-lb _f	100,000 ft-lb _f

*Fully assembled tool without Saver-Sub

**Limited by top connection

Frank's Evolution System

Ensuring a Safe and Efficient Work Environment

Horseshoe Elevator



Frank's Horseshoe Elevator greatly improves the handling of large O.D. pipe. Since the Horseshoe Elevator is latched directly onto the pipe in the v-door, it is used to pick up single joints as well as handle the full string weight.

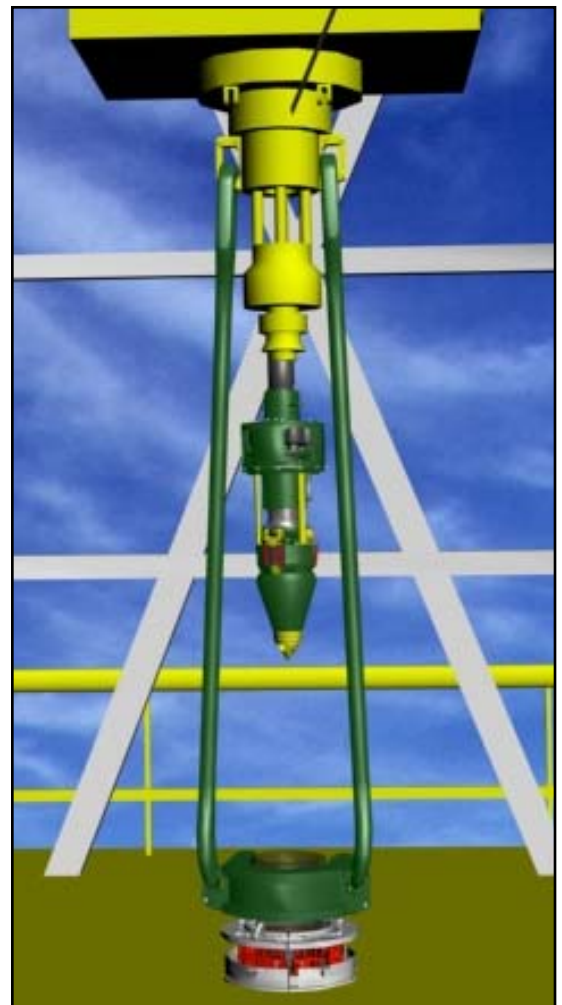
The Horseshoe Elevator is available for pipe sizes 20" to 42". Its safe load rating is 350 tons.



Belt Tong



When high torques are required to break-out connections, Frank's Belt Tong can quickly be used to deliver break-out torques up to 140,000 ft-lb. Once the connection is broken, the Evolution is used to spin the connection out.



Frank's Evolution System

Evolution

The Evolution connects to and is powered by the top drive, eliminating the need for the traditional tong on the rig floor. The Evolution is compact in size and has the ability to double as a fill-up tool when used in conjunction with Frank's patented Mud Saver valve.



Rotary Spider

The Rotary Spider eliminates the need for scaffolding on the rig floor while running tubulars. This is advantageous because working directly from the rig floor provides less rig-up/rig-down time and a safer work environment.

