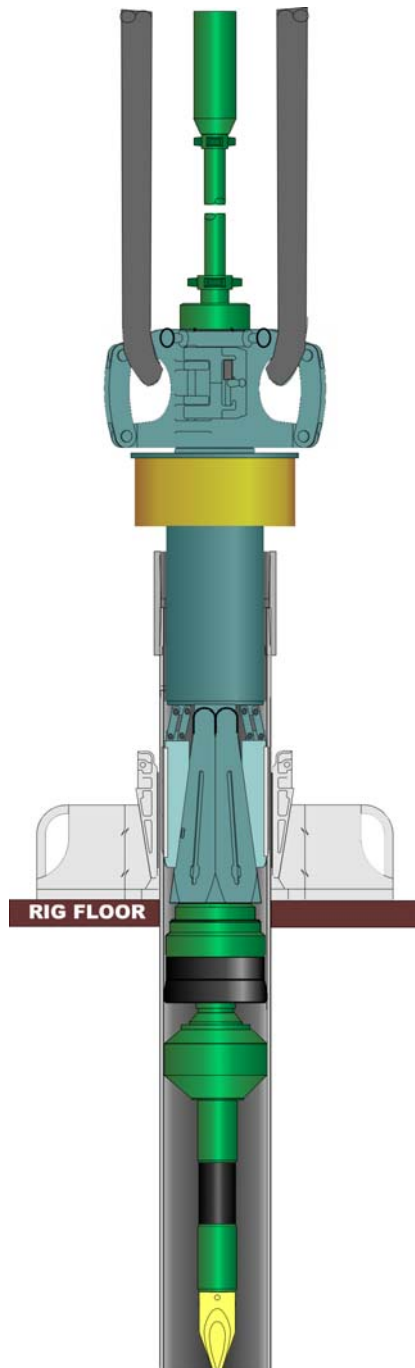


# INTERNAL GRIP ELEVATOR

U.S. Patents 6,309,002 and 6,431,626  
Additional U.S. Patents Pending



The industry's most versatile elevator, Frank's Internal Grip Elevator, is essentially three tools in one! An elevator, a fill-up tool and a cementing tool. No other elevator is designed or is capable of integrating these functions.

### **How is the Frank's Internal Grip Elevator designed?**

The Internal Grip Elevator is designed to fit inside the joints of casing being raised or lowered. When the slips are set, they push outward on the inside diameter of the casing joint and grip the pipe. It has a safe working load rating of 350 tons.

### **What are the advantages of Frank's Internal Grip Elevator?**

As the name suggests, the elevator is actually located inside the casing. This not only creates a less cluttered working environment, but it also allows room for a standard spider to be set just below the collar. The ability to do this allows the elevator to mimic the safety features of the flush mount spider, therefore eliminating the need for one. Another plus is that this elevator can be interlocked with any pneumatic spider equipped with Frank's Elevator / Spider Interlock System. In regards to fill-up and cementing procedures, the Internal Grip Elevator easily combines with Frank's FACTS (Fill-up and Cementing Tool System) thereby rendering the cementing head obsolete.

### **How does Frank's Internal Grip Elevator create a safer work environment?**

Because the Spider is set adjacent to the casing coupling the tong operator is able to stand on the rig floor and make up the joint of pipe without having to scaffold up.

### **What is the range of casing that Frank's Internal Grip Elevator can handle?**

The Elevator is capable of handling **sizes of 16", 18-5/8", and 20"**.

The Internal Grip creates a safer environment on the rig floor by allowing the tong operator to operate his tong from the rig floor rather than the traditional method of scaffolds. The Internal Grip Elevator is operated remotely from the rig by the console at right. As you can see the console controls both the elevator and the spider along with our patented interlock system, disallowing the elevator to open before the spider is set or the spider to open before the elevator is set.



Nominal Pipe O.D.	Minimum Pipe Drift	Maximum Nominal Pipe I.D.	Slips	Inserts	Bottom Guide
16"	14.00"	15.10"	98010003 (6 needed)	98010010 (72 needed)	98010024 (14.00 O.D.)
18 5/8"	16.83"	17.97"	98010040 (6 needed)	98010041 (90 needed)	98010025 (16.83 O.D.)
20"	17.87"	18.91"	98010040 (6 needed)	98010042 (90 needed)	98010003 (17.87 O.D.)