

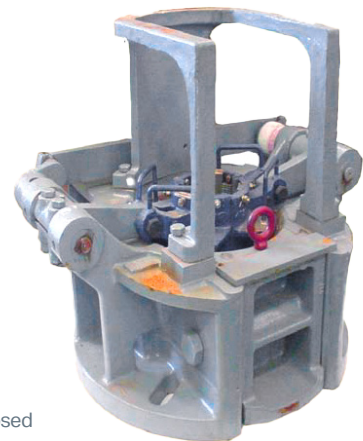
Well Construction

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

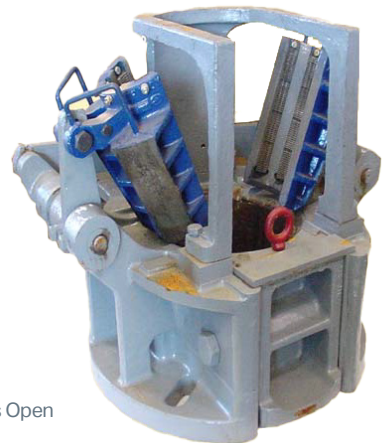
Cavins "Advance" Automatic Spiders

The CAVINS "Advance" Model "F" Automatic Spider is another industry tested and proven tool. The Model "F" offers manual, pneumatic (air) or hydraulic operation. The Model "F" Spider can handle tubular goods ranging in size from 2-3/8" - 8-5/8" O.D. The load capacity for the Model "F" Spider is 400,000 lbs. Inner string (stinger) application to provide remote operation and eliminate manual bowl and hand slips above the rig floor.

Specifications	
Size	Model "F"
Height	26 3/4 in
Base dimension	28 in x 28 in
Gate opening	8 3/4 in
Bowl opening	10 1/8 in diameter
Tubular range	2 3/8 in - 8 5/8 in
Maximum load capacity	400,000 lbs.



Slips Closed



Slips Open