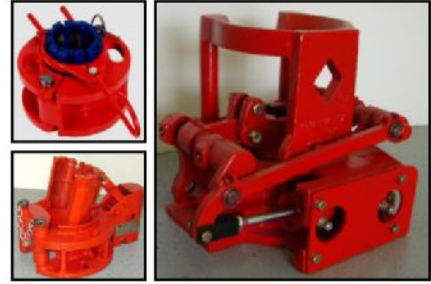


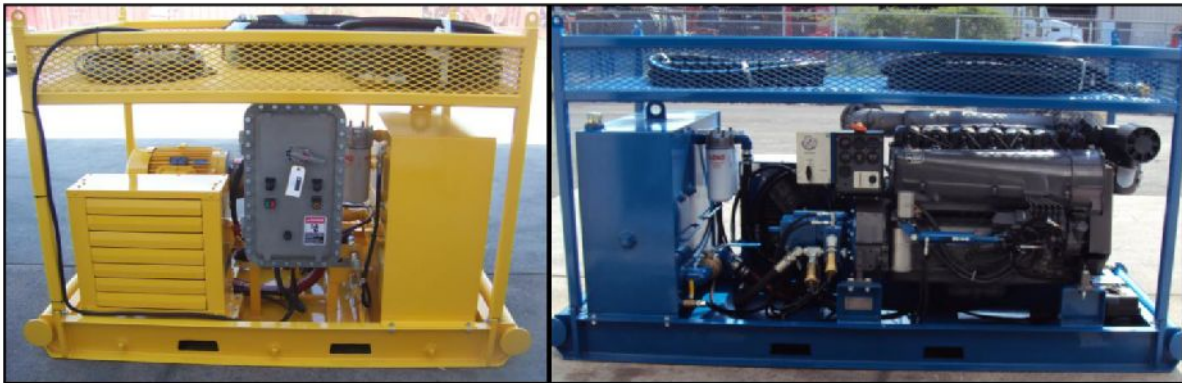
Tubing Spider

Model	Actuation	Maximum Size (in)	Minimum Size (in)	Capacity (ton)	Weight (lbs)
TS 100 3.5	Manual	3-1/2	1.05	100	235
TS 100 5.5	Manual	5-1/2	3-1/2	100	300
B	Air/Hyd.	3-1/2	1.315	55	250
G	Air/Hyd.	4-1/2	1.660	60	275
C	Air/Hyd.	5-1/2	1.315	82.5	410
CHD	Air/Hyd.	5-1/2	1.315	125	460
E	Air/Hyd.	7	2-3/8	175	950



Power Unit

We supply tubing tong, casing tong and drill pipe tong power units or units to drive drill pipe make/break systems, drill pipe roughnecks, wireline units, hydraulic winches, jack up cylinders, rotary tables, pickup/laydown machines, pipe rackers or multiple functions combined in a complete rig floor power unit. Electric hydraulic power units are available for standard shop service up to Class 1, Division 1 (explosion proof) units. Diesel hydraulic power units are also available. We handle open or closed loop systems, skid mounted or trailer mounted units for high or low temperature/cold weather applications. Each unit is custom fit to the customer's application. All systems are provided with technical manuals including operating instructions, assembly drawings and hydraulic/electrical schematics.



A sample list of units is below. Maximum flow and pressure do not occur at the same time. Flows are rated at 60 Hz.

Model	Prime Mover	Maximum Pressure [PSI]	Maximum Flow [GPM]	Features
30000	114 HP Diesel	3500	60	Heat exchanger, hydraulic throttle, high/low circuit
30100/ 30200	60 HP Electric	3500	60	Heat exchanger, remote start/stop panel, reservoir heater, level and temperature switch, high/low circuit
30300	2x60 HP Electric	3500	60	Redundant pump string for backup capability
30400	30 HP Electric	2500	25	Heat exchanger, level and temperature switch, high/low circuit
30500	40 HP Electric	3000	35	Pressure compensated pump with horsepower limiter