

# HYDRAULIC TONGS & POWER UNITS





## Hydraulic Tongs



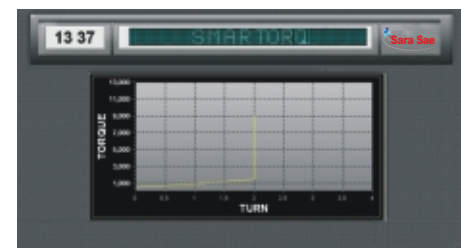
Sara Tongs are available in a variety of models, sizes and types to handle casings, drill collars, sucker rods and tubing including chrome tubulars and can be supplied with hydraulic or manual backup assemblies.

CAPACITY	4-1/2"	5-1/2"-LT	5-1/2"	5-1/2"-SH	10-3/4"	13-3/8"	13-5/8"	20"
FOR CASING & TUBING SIZE O.D.	5/8" to 4-1/2"	1.050" to 5-1/2"	2-1/16" to 5-1/2"	2-1/16" to 5-1/2"	4" to 10-3/4"	4" to 13-3/8"	4" to 13-5/8"	8-5/8" to 20"
TORQUE	High Gear	2,100 ft. lbs.	2,100 ft. lbs.	3,000 ft. lbs.	3,000 ft. lbs.	4,000 ft. lbs.	4,000 ft. lbs.	8,300 ft. lbs.
	Low Gear	8,000 ft. lbs.	8,000 ft. lbs.	15,000 ft. lbs.	15,000 ft. lbs.	18,000 ft. lbs.	25,000 ft. lbs.	35,000 ft. lbs.
MAX RPM	High	180	180	75	75	124	110	54
	Low	50	50	15	15	25	22	8
GEAR RATIO	High	6.4:1	6.4:1	13.25:1	13.25:1	17:1	19.25:1	3.472:1
	Low	23.6:1	23.6:1	66.25:1	66.25:1	85:1	96.25:1	22.727:1
SIZE Width X Length	22.5 x 39"	22.5 x 39"	25.5" x 54"	25.5" x 54"	32" x 56"	34" x 59"	34" x 59"	43" x 76"
WEIGHT	600 lbs.	600 lbs.	940 lbs.	1,140 lbs.	1,150 lbs.	1,260 lbs.	1,255 lbs.	2,800 lbs.
HYDRAULIC REQUIREMENTS	High Speed	65 GPM at 1,000 PSI	65 GPM at 1,000 PSI	50 GPM at 1,000 PSI	50 GPM at 1,000 PSI	65 GPM at 1,000 PSI	65 GPM at 1,000 PSI	65 GPM at 1,000 PSI
	Low Speed	30 GPM at 3,000 PSI	30 GPM at 3,000 PSI	30 GPM at 2,500 PSI	30 GPM at 2,500 PSI	30 GPM at 3,000 PSI	30 GPM at 3,000 PSI	30 GPM at 2,500 PSI

Consult Factory for Specific Configurations

## Computerized Torque Control System

Microprocessor based systems for providing computerized analysis of each joint and complete string. Provides graphic analysis of torque Vs. turn, torque Vs. time



# Power Units



## Zone I Electric Power Unit

### TECHNICAL SPECIFICATIONS

- Pump: Variable delivery axial piston pump
- Engine: 50 hp (37kw) Eexd electric motor
- Cooler: thermostatically controlled hydraulic oil cooler
- Electric Supply: 3 phase 415/480 volts 50/60 Hz
- Hydraulic Output: 2,500 psi (172 bar) or 35 gpm (160 liters per minute).

### DIMENSIONS

- Size: 4' 9" long x 4' 9" wide x 4' x 9" high  
(1,500 mm long x 1,500 mm wide x 1,500 mm high)
- Weight: 5,060 lbs (2,300 kg).

## Zone II Diesel Power Unit

### TECHNICAL SPECIFICATIONS

- Cooler: Combined water cooled manifold / exhaust cooler
- Flame Arrestors: Exhaust gas flame and spark arrestors, inlet air flame arrestor, crank case vent flame arrestor
- Fan and Fan Belts: Non-metallic radiator fan and anti-static fan belts
- Protection Device : Over-speed protection device operating an inlet air cut-off
- Pressure & Temperature Trips: Low lubricating oil pressure, high cooling water temperature and high exhaust temperature trips
- Caps: Screw caps to dipstick and oil filter caps



- Engine: 6 Cylinder Diesel
- Hydraulic Output: 2,500 psi (172 bar) or 35 gpm (160 litres per minute)
- Starter: Air-operated.

### DIMENSIONS

- Size: 8' 9" long x 4' 3" wide x 5' 6" high  
(2,700 mm long x 1,300 mm wide x 1,700 mm high)
- Weight: 6,600 lbs (3,000 kg).

## Non-zoned Diesel Power Unit

### TECHNICAL SPECIFICATIONS

- Engine: 6 cylinder diesel
- Hydraulic Output: 2,500 psi (172 bar) or 35 gpm (160 litres per minute)
- Starter: Air or spring-operated.

### DIMENSIONS

- Size: 7' 8" long x 4' 3" wide x 4' 9" high  
(2,400 mm long x 1,300 mm wide x 1,500 mm high)
- Weight: 4,510 lbs (2,050 kg).

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