



## Technical Data Sheet: CTHU 5-1/8" X 15,000 psi Single

All HEC HU Well Intervention Equipment is manufactured and tested according to HEC Quality Management Standards

**Performance Requirement Level:** PR1

**Through Bore:** 5-1/8"

**Rated Working Pressure:** 15,000 psi

**Rated Hydraulic Pressure:** 1,500 psi

Note: Hydraulic Pressure can be applied up to 3,000 psi. in emergency situations

### Temperature Ranges:

Metallic: -20 to 250°F

Elastomers: 20 to 200°F

### Assembly Weights and Dimensions:

5-1/8" x 15M	Flange x Flange	Stud x Stud	Stud x Flange	Flange x Stud
Weight (lbs.) w/o Shear Bonnets	1,680	1,350	1,500	1,500
Height (in.)	25.875	13.125	19.5	19.5
Width, Bonnets Closed (in.) w/ locking screws Unlocked	60.50			
Width, Bonnets Closed (in.) w/ locking screws locked	53.75			
Width, Bonnets Open (in.) w/ locking screws unlocked	79.75			
Width, Shear Bonnets Closed (in.) w/ locking screws unlocked	81.5			
Width, Shear Bonnets Open (in.) w/ locking screws unlocked	99.00			

+190 lbs. with Boosters

### Operating Capacities:

SIZE AND WORKING PRESSURE	CONFIGURATION	GALLONS TO OPEN RAMS (1 SET)	GALLONS TO CLOSE RAMS (1 SET)	LOCKING SCREW TURNS (EACH END)	CLOSING RATIO	OPENING RATIO
5-1/8" 15M	Standard	0.6	0.6	13.5	7.91:1	3.5:1
5-1/8" 15M	Tandem Shear Booster	0.7	1.4	15.5	15.8:1	3.5:1

### Elastomers:

Acrylonitrile Butadiene Rubber (NBR)

Nominal Operating Range: 20 to 200°F

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## Operational Characteristics Summary

- Ram Access: 200 cycles with 10 pressure cycles
- Fatigue Test: 546 open/close cycles, 78 pressure test
- Slip/Seal Ram
  - Rated for up to 50,000 lbs. of hang off
  - Recommended hydraulic pressure for hang off: 3000 psi.
  - Locking screws locked
- Shear and Seal Rams
  - Recommended hydraulic pressure for shearing tube: 3000 psi.
  - Shear bonnets and boosters must be installed to use shear rams
- CTHU temperature rating
  - 20°F to +200°F

## Recommended Shear Operation:

- Tandem Boosters must be installed to shear
- Accumulator Pressure to Shear: 3000 psi.
- Horn Equipment recommends isolating well bore pressure using pipe rams and slip rams below the shear rams.
- It is recommended that shear rams be replaced and/or inspected after shearing operation by OEM.