

9⁷/₈ HS-40 and 9⁷/₈ HS-55 High Performance Power Tongs Featuring Space Saver[®] Technology

Reliable, Safe, and Efficient Connections Designed for Casers

We engineered 9⁷/₈ HS-40 and 9⁷/₈ HS-55 tong models to provide you with fast, high torque, and reliable connection, all within a compact design for today's smaller rig floors. Our SPACE SAVER[®] door hydraulically opens vertically, allowing for the tong to work in a much smaller operational area on rig floors while enhancing safety and greatly reducing labor intensive operations. An integrated door interlock system is enclosed within tong body reducing accidental damage or tampering.

Safety
Enhanced



SPACE SAVER[®] Hydraulic Vertical Door:

Patent pending door that hydraulically opens vertically in 2-seconds, allowing the tong to work in a much smaller operational area on the rig floor. Additionally, safety is enhanced by keeping personnel away from the tong door area.

Fully Integrated Safety Door Interlock:

Tamper resistant door interlock prevents accidental tong operation. Unintended damage or circumvention is mitigated by having the safety door interlock cam-valve located within the tong body.

Wedge Drive Tri-Grip[®] Backup:

The WD Tri-Grip Backup features a three head design that encompasses the tubular that applies an evenly distributed gripping force. The backup is capable of handling tubulars from 3¹/₂ in. to 11 in.

9⁷/₈ HS-40 AND 9⁷/₈ HS-55 OUTSTANDING FEATURES:



High performance

Enhanced high torque with patent pending CASE STIFFENERS that enhances overall torque output up to 40,000 ft-lbs for the HS-40 model and 55,000 ft-lbs for the HS-55 model. A high full 360° rotational torque and speed-shifting capability ensures the tong can makeup special torque-turn connections that require continuous rotation.



Exceptional Gripping

The open throat design provides exceptional gripping capabilities on all sizes from 3¹/₂ - 9⁷/₈ in. The tong features a two-head biting system with an innovative design that allows for sliding heads or pivot heads configuration upon tong order.



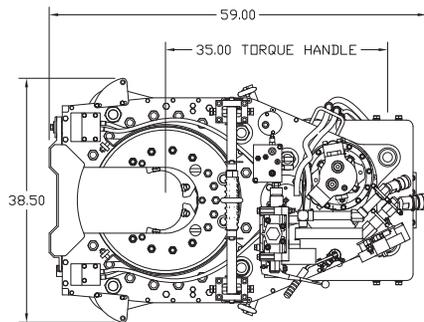
Reduced Rig Floor Space Design

The HS-40 and HS-55 models have the industries smallest operational footprint for their capacity and torque. The patent pending SPACE SAVER[®] door that hydraulically opens vertically, allowing for the tong to work in a much smaller operational area on rig floors and is also less labor intensive operating.

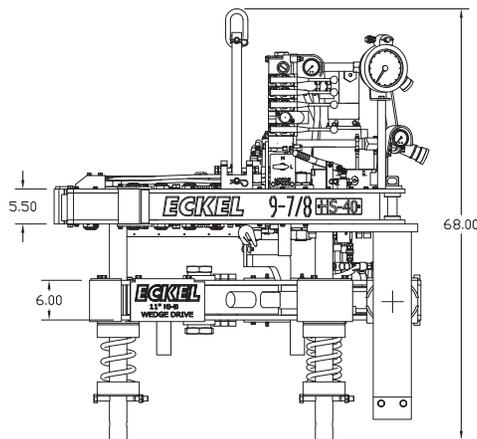
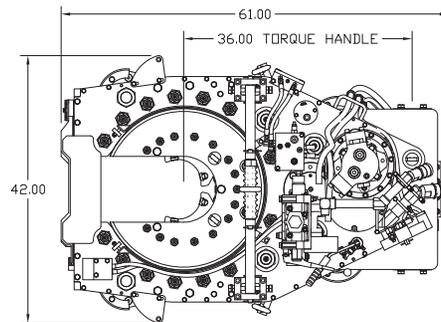
THE ECKEL 9⁷/₈ HS-40 AND 9⁷/₈ HS-55 TONGS ARE BEST SUITED FOR

- 1 | Operators that need the thinnest, lightest, and compact footprint yet having a high torque, high rotational torque and the fastest RPM for its size.
- 2 | Operators looking for compact footprint for rigs with reduced footprint. Eckel's innovative SPACE SAVER[®] Door technology resolves space constraints on smaller rig floors.
- 3 | Operators needing a high performance tong with speed shifting for special torque-turn connections that require continuous rotation.

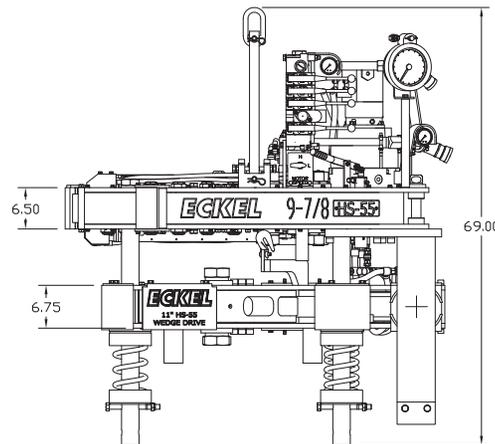
HS-40 Model
Maximum Torque 40K



HS-55 Model
Maximum Torque 55K



Tong with Wedge Drive
Tri-Grip Backup



Tong with Wedge Drive
Tri-Grip Backup

9 7/8 HS Series Tong	HS-40	HS-55
Capacity	3 1/2 - 9 7/8 in. (88.9 - 250.8 mm)	
Width ^[1]	38.5 in. (977.9 mm)	42 in. (1066.8 mm)
Length	59 in. (1498.6 mm)	61 in. (1549.4 mm)
Height	35 in. (889 mm)	36 in. (914.4 mm)
Weight ^[2]	2,000 lbs (907.2 kgs)	2650 lbs (1202 kgs)
Case Height	5.50 in. (139.7 mm)	6.50 in. (165.1 mm)
Maximum: Torque@ 2500 psi (172 bar) / RPM @ 65 gpm (246 l/min):		
High-High	3,000 ft-lbs (4067 Nm) 110 RPM	3,900 ft-lbs (5288 Nm) 87 RPM
High-Low	6,000 ft-lbs (8135 Nm) 55 RPM	7,750 ft-lbs (10508 Nm) 44 RPM
Low-High	20,000 ft-lbs (27116 Nm) 16 RPM	26,000 ft-lbs (35251 Nm) 13 RPM
Low-Low	40,000 ft-lbs (54233 Nm) 8 RPM	55,000 ft-lbs (74570 Nm) 7 RPM
Handle Length	35 in. (889 mm)	36 in. (914.4 mm)
9 7/8 HS WD Backup	HS-40	HS-55
Backup Type	Wedge Drive Tri-Grip Backup	
Capacity	3 1/2 - 11 in. (88.9 - 279.4 mm)	
Width ^[1] ^[3]	38.5 in. (977.9 mm)	42 in. (1066.8 mm)
Length ^[3]	59 in. (1498.6 mm)	61 in. (1549.4 mm)
Height ^[3]	68 in. (1727.2 mm)	69 in. (1752.6 mm)
Weight ^[2] ^[3]	3,500 lbs (1587.6 kgs)	4,400 lbs (1995.8 kgs)
Case Height	6.00 in. (139.7 mm)	6.75 in. (139.7 mm)
Load Cell Type	Compression	Compression
Handle Length ^[3]	35 in. (889 mm)	36 in. (914.4 mm)

^[1] With Case Handles, ^[2] Weight Approximate, ^[3] Tong & Backup