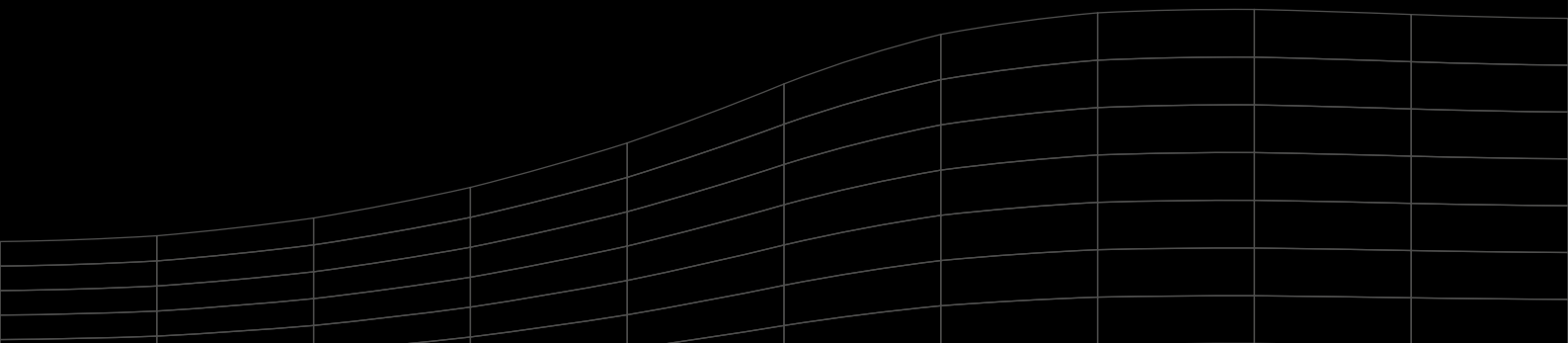


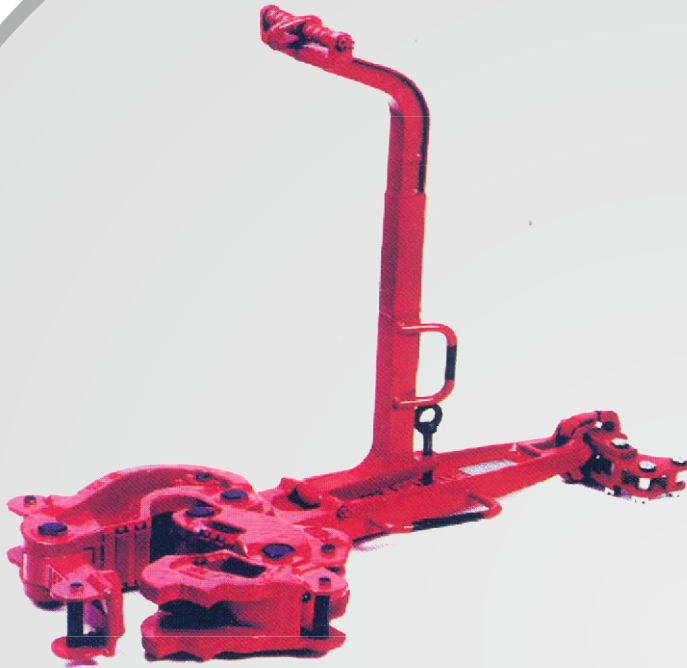


SARA SAE PRIVATE LIMITED

MANUAL TONGS



MANUAL TONGS



Sara Manual HT Tong is a tool designed for making up and breaking connections of tubular goods, from light tubing to thick wall pipe including drill collars. These are various types designs and having varying sizes & torque capacity from 2,000 to 100,000 ft lbs.

It Covered sizes from 1.2" to 30" (extended casing). The Manual tongs can be assembled for either making up or break out by removing the hanger and turning the complete HT Tong over.

Interchangeable lug jaw design permits each tong to handle different sizes of tubular. By installing hinge jaws available in only some models. Bigger tubular sizes can be handled.

Sara Manual tongs are precisely machined from a properly heat treated special high tensile steel alloy.

MANUAL TONG MODEL	DESCRIPTION	PART NO.	TORQUE RATING	
			lbs-ft	Nm
HT 100 SIZE RANGE 4" TO 17"	HT100 TONG COMPLETE WITH LONG JAW,SHORT JAW, LATCH, LEVER & HANGER LESS LUG JAWS	200071		
	LUG JAW 4" - 8.1/2"	200663	100,000	135,582
	LUG JAW 8.1/2" - 12"	200664	100,000	135,582
	LUG JAW 12" - 15"	200665	75,000	101,700
	LUG JAW 15.3/4"	200666	60,000	81,400
	LUG JAW 16" - 17"	200667	60,000	81,400
	HINGE JAW ASSEMBLY 8.1/2" -17"	200662		
HT 65 SIZE RANGE 3.1/2" TO 17"	HT65 TONG COMPLETE WITH LONG JAW,SHORT JAW, LATCH, LEVER & HANGER LESS LUG JAWS	200540		
	LUG JAW 3.1/2" - 8.1/4"	200546	65,000	88,100
	LUG JAW 8" - 11.1/4"	200547	65,000	88,100
	LUG JAW 11.3/4" - 14.3/8"	200548	40,000	54,250
	LUG JAW 16" - 17"	200549	40,000	54,250
	HINGE JAW ASSEMBLY 8.1/4" -17"			
HT 55 SIZE RANGE 3.1/2" TO 13.3/8"	HT55 TONG COMPLETE WITH LONG JAW,SHORT JAW, LATCH, LONG LEVER & HANGER LESS LUG JAWS	200560		
	HT55 TONG COMPLETE WITH LONG JAW,SHORT JAW, LATCH, SHORT LEVER & HANGER LESS LUG JAWS	200560-1		
	LUG JAW 3.1/2" - 5"	200083	55,000	74,800
	LUG JAW 5" - 6.3/4"	200084	55,000	74,800
	LUG JAW 6.5/8" - 9"	200085	55,000	74,800
	LUG JAW 9" - 10.3/4"	200086	40,000	54,250
	LUG JAW 11.3/4"	200087	30,000	40,700
	LUG JAW 12.3/4" - 13"	200089	30,000	40,700
	LUG JAW 13.3/8"	200090	30,000	40,700

MANUAL TONG MODEL	DESCRIPTION	PART NO.	TORQUE RATING	
			lbs-ft	Nm
HT 35 SIZE RANGE 2.3/8" TO 10.3/4"	HT35 TONG COMPLETE WITH LONG JAW, LATCH, LONG LEVER & HANGER LESS LUG JAWS	200620		
	HT55 TONG COMPLETE WITH LONG JAW, LATCH, SHORT LEVER & HANGER LESS LUG JAWS	200620-1		
	SHORT JAW 2.3/8" - 7"	200625		
	SHORT JAW 7.5/8" - 10.3/4"	200624		
	LUG JAW 2.3/8" - 3.668"	200076	15,000	20,400
	LUG JAW 2.7/8" - 4.1/4"	200077	35,000	47,500
	LUG JAW 3.1/2" - 5.1/4"	200078	30,000	40,700
	LUG JAW 5.1/4" - 7"	200079	28,000	38,000
	LUG JAW 7" - 8-5/8"	200079	25,000	34,000
	LUG JAW 9.5/8" - 10.3/4"	200079	25,000	34,000
HT 14 SIZE RANGE 2.3/8" TO 7"	HT14 TONG COMPLETE WITH LONG JAW, LATCH, LEVER, SHORT JAW & HANGER LESS LUG JAWS	200640		
	LUG JAW 2.3/8" - 3.1/2"	200645	14,000	19,000
	LUG JAW 3.1/2" - 5"	200646	14,000	19,000
	LUG JAW 4.3/4" - 6.1/4"	200647	14,000	19,000
	LUG JAW 5.3/4" - 7"	200648	10,000	13,600

KELCO FULL GRIP MANUAL TONG

The K-25, K-30 Kelco Type Manual Tong is designed for heavy duty service of tubing. The Kelco full grip has a wraparound design with approximately 300 degrees of die contact, which helps to prevent cutting or crushing of thin wall tubing.

K-25, K-30 Kelco Type Manual Tong are load tested and have a maximum torque rating of 2000 ft-lbf, 5,000 ft.-lbf. The K-25, K-30 Kelco Type Manual Tong are quality, heat treated steel construction and are capacity rated to API specifications.

MANUAL TONG MODEL	DESCRIPTION	PART NO.	TORQUE RATING	
			lbs-ft	Nm
K-25	KELCO FULL GRIP K-25 1.200" - 3.063"	8527-5016	2,000	2,700
K-30	KELCO FULL GRIP K-30 1.200" - 3.063"	8527-5036	5,000	6,800

SNAP ON TONG

This easily handled tong is "snapped on" with one hand, locking automatically around the tubing. It can be released only by the operator. The Sara snap on tong is held open when off the tubing, or in a closed position around the pipe, by two spring plungers which act directly against the body and lever. The tong die is held at the proper angle for taking an instant, positive grip, releasing readily when the operator ratchets the tong. This firm, non-slip grip permits unscrewing joints of tubing up to 3-1/2" diameter without crimping.

MANUAL TONG MODEL	DESCRIPTION	PART NO.	TORQUE RATING	
			lbs-ft	Nm
SANP-ON TONG SIZE RANGE 1.900" TO 3.1/2"	SNAP-ON TUBING TONG 1.900" UPSET TUBING COUPLING	26816-250	3,000	4,000
	SNAP-ON TUBING TONG 2.7/8" UPSET TUBING COUPLING	36816-366	3,000	4,000
	SNAP-ON TUBING TONG 2.7/8" TUBING 2.3/8" UPSET TUBING COUPLING	36816-287	3,000	4,000
	SNAP-ON TUBING TONG 2.3/8" UPSET TUBING COUPLING	36816-306	3,000	4,000
	SNAP-ON TUBING TONG 3.1/2" TUBING 2.7/8" PLAIN TUBING COUPLING	36816-350	3,000	4,000
	SNAP-ON TUBING TONG 2.3/8" TUBING	36816-237	3,000	4,000

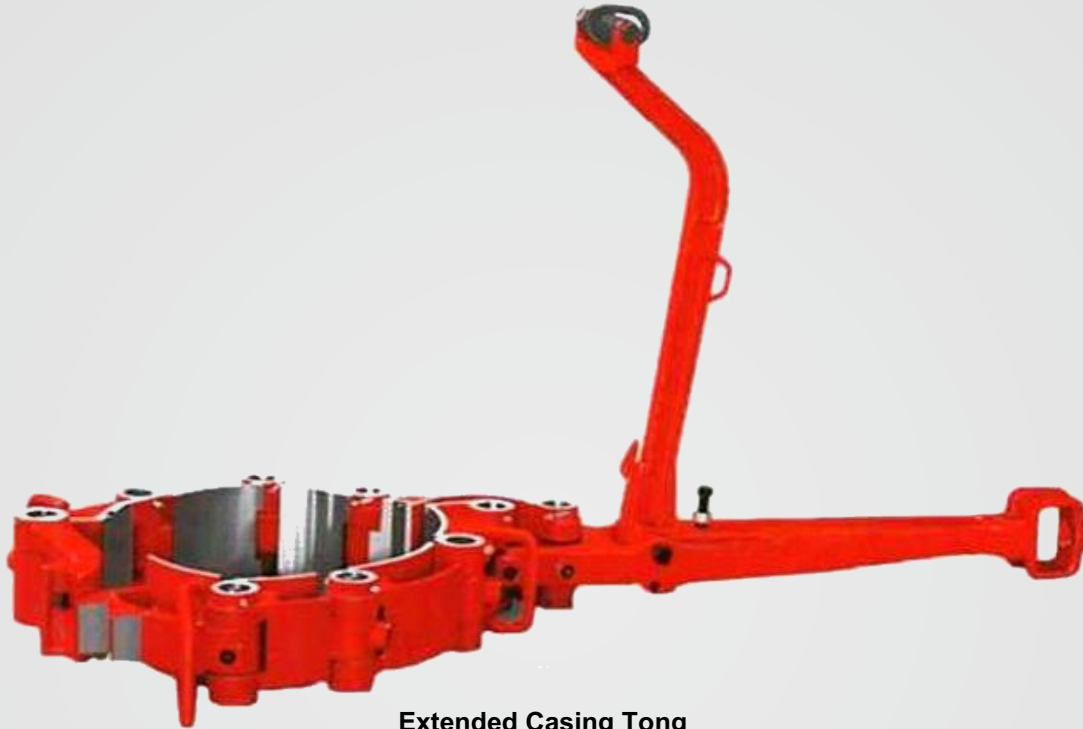
MS TONG

The Type MS has proved its efficiency in the field on all types of slim hole drilling rigs. It has a T head latch which, with the 2-step and 3-step lug jaw construction enables the tong to fit both pipe coupling and tool joint without any adjustment. The 3-jaw design permits uniform contact around the circumference of the pipe. The tong is strong enough to easily break both tool joints and bits in light drilling operations. A rigid hanger suspension device allows fast, permanent adjustment, holding the tong balanced and ready for use. All parts are interchangeable except the long jaw, latch, and lug jaws. The changes are slight dimensionally, but greater performance can be expected.

MANUAL TONG MODEL	DESCRIPTION	PART NO.	TORQUE RATING	
			lbs-ft	Nm
MS TONG SIZE RANGE 1.9" TO 6.1/8"	MS TONG COMPLETE WITH LONG JAW, LATCH, LEVER, SHORT JAW(1.9" TO 3.1/2") & HANGER LESS LUG JAWS			
	MS TONG COMPLETE WITH LONG JAW, LATCH, LEVER, SHORT JAW(4.1/2" TO 6.1/8") & HANGER LESS LUG JAWS			
	LUG JAW 1.900" - 2.1/16"	34311	6,500	8,800
	LUG JAW 2.3/8" - 3.668"	30422	6,500	8,800
	LUG JAW 3.1/2" - 4.1/2"	30424	6,500	8,800
	LUG JAW 4.1/2" - 5.1/4"	33917	6,500	8,800
	LUG JAW 5.200" - 6.1/8"	31139	6,500	8,800

EXTENDED CASING HEAD TONG

These Tong are necessary tools applied to make up and break out pipes to larger diameter. Same Tong can be used by Changing lug jaws and latch steps adjust different handling sizes drill pipe. They are designed and manufactured according to API Spec 7K Specification for drilling and well servicing equipment



Extended Casing Tong

No of Hinge Jaw	Pipe Size Range		Rated Torque	
	inch	mm	Nm	ft lbs
9,8	13.3/8" ~14.1/2"	340~368.3	35000 ~68000	25000 ~50000
8,7	14.1/2" ~16"	368.3~406.4		
8,9,9	16" ~17.1/2"	406.4 ~444.5		
8,9,7	17.1/2" ~19"	444.5 ~482.6		
7,8,7	19" ~20"	482.6 ~508		
9,8,9,7	20" ~21.1/2"	508 ~546.1		
9,7,8,7	21.1/2" ~23"	546.1 ~584.2		
9,9,8,7,7	24" ~25.1/2"	609.6 ~647.7		
9,8,7,7,7	25.1/2" ~27"	647.7 ~685.8		
8,7,7,7,7	27" ~28.1/2"	685.8 ~723.9		
9,9,8,7,7,8	28.1/2" ~30"	723.9 ~762		

EXTENDED CASING HEAD TONG ASSEMBLIES

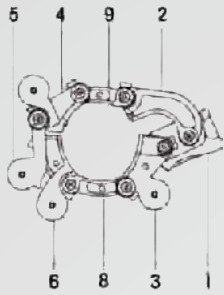


Fig A, 13.3/8"-14 1/2"

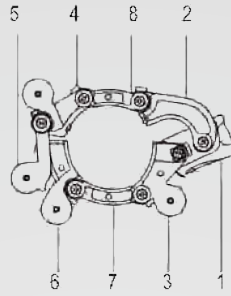


Fig B, 14.1/2"-16"

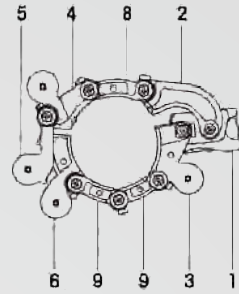


Fig C, 16"-17.1/2"

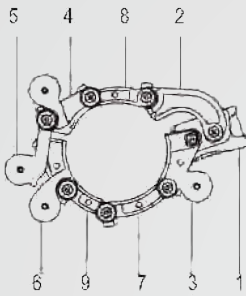


Fig D, 17.1/2"-19"

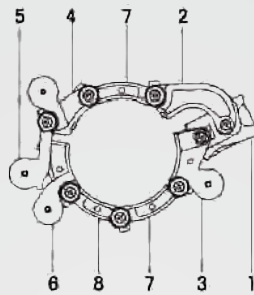


Fig E, 19"-20"

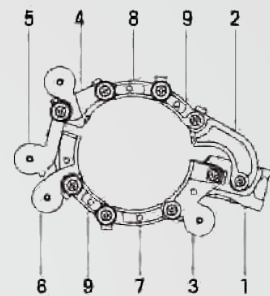


Fig F, 20"-21.1/2"

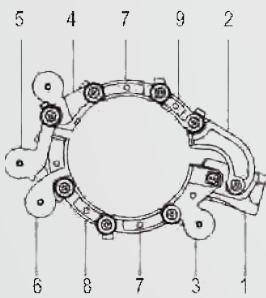


Fig G, 21.1/2"-23"

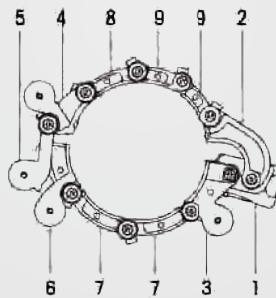


Fig H, 24"-25.1/2"

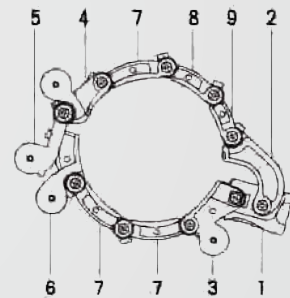


Fig I, 25.1/2"- 27"

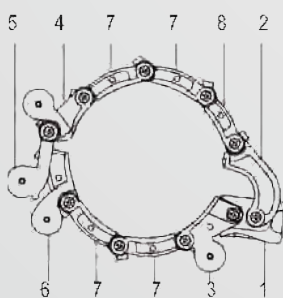


Fig J, 27"-28.1/2"

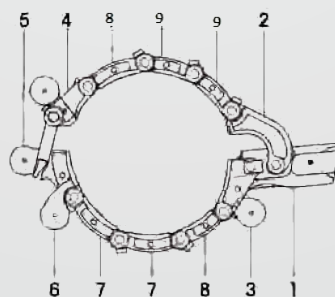


Fig K, 28.1/2"-30"

EXTENDED CASING HEAD TONG ASSEMBLIES LIST

SIZE RANGE	LEVER Assy "1"	LONG JAW Assy "2"	SHORT JAW Assy "3"	LATCH JAW Assy "4"	LATCH Assy "5"	LATCH JUG JAW Assy "6"	HINGE JAW Assy "7"	HINGE JAW Assy "8"	HINGE JAW Assy "9"
inch	No.req	No.req	No.req	No.req	No.req	No.req	No.req	No.req	No.req
13.3/8" ~14.1/2"	1	1	1	1	1	1	-	1	1
14.1/2" ~16"	1	1	1	1	1	1	1	1	-
16" ~17.1/2"	1	1	1	1	1	1	-	1	2
17.1/2" ~19"	1	1	1	1	1	1	1	1	1
19" ~20"	1	1	1	1	1	1	2	1	-
20" ~21.1/2"	1	1	1	1	1	1	1	1	2
21.1/2" ~23"	1	1	1	1	1	1	2	1	1
24" ~25.1/2"	1	1	1	1	1	1	2	1	2
25.1/2" ~27"	1	1	1	1	1	1	3	1	1
27" ~28.1/2"	1	1	1	1	1	1	4	1	-
28.1/2" ~30"	1	1	1	1	1	1	2	2	2

Assy-Assemblies
Req- Require



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