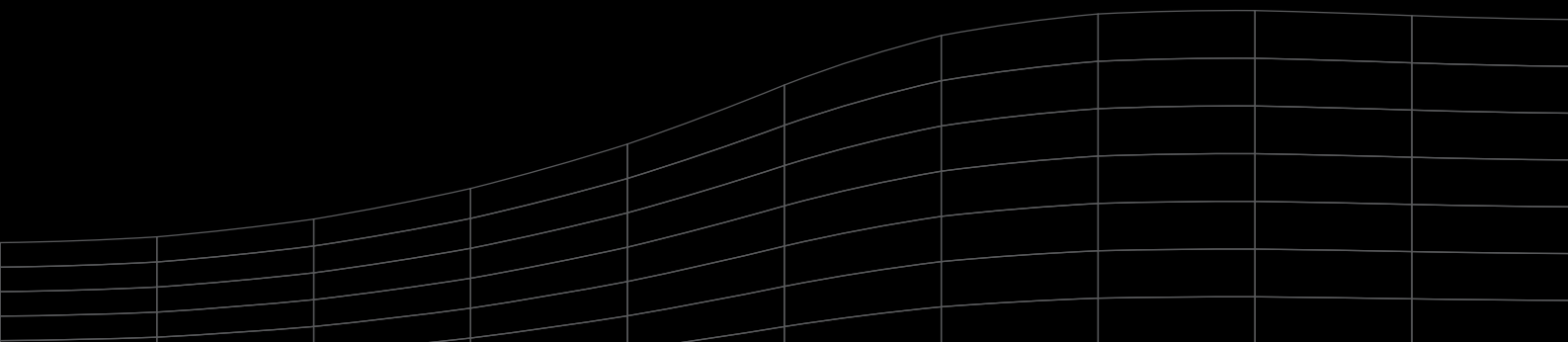


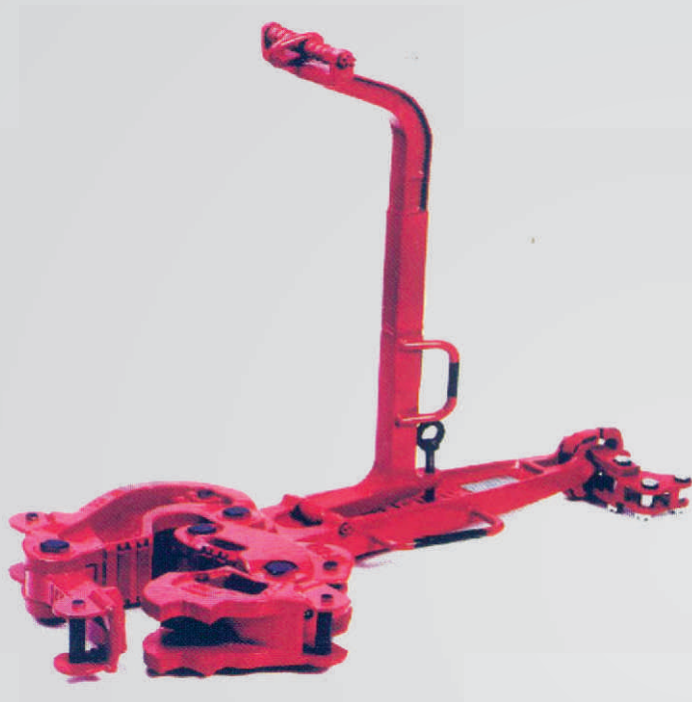


SARA SAE PRIVATE LIMITED

MANUAL TONGS



MANUAL TONGS



Sara Manual Tong is a tool designed for making up and breaking connections of tubular goods, from light tubing to thick walled pipe including drill collars. These are in various designs and types having varying torque capacity from 2,000 to 100,000 ft lbs (2,700-1,35,600Nm). Covering sizes from 2 3/8" to 17" or 36" (HT50 with extended reach). 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 tubing's and pipe per torque range. Bigger pipe sizes can be handled by installing hinge jaws which is available in only some of the models .

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

Part Description	Part No.	Torque Rating		Weight	
		Ft-lbs	Nu	Lbs	Kg.
SDD, Range 4” – 17” Rating 100000 ft-lbs					
SDD, complete less lug jaws	31054	1,00,000	1,35,600	533	242
Lug Jaw (4” – 8-1/2”)	31059-1	1,00,000	1,35,600	132	60
Lug Jaw (8-1/2” – 12”)	31060	1,00,000	1,35,600	98	45
Lug Jaw (12” – 15”)*	31061	75,000	1,01,700	136	62
Lug Jaw (15-3/4”)*	31063	1,00,000	1,35,600	158	72
Lug Jaw (16” – 17”)*	31062	60,000	81,400	132	60
Hinge Jaw assembly 8-1/2” – 17”)	31065-1	1,00,000	1,35,600	109	50

DB, RANGE 3-1/2" – 17" RATING 65000 ft. lbs					
DB, less lug jaws	30111	65,000	88,100	440	200
Lug jaw (3-1/2" – 8-1/4"	30062-2	65,000	88,100	82	37
Lug, jaw (8" – 11-3/4")	60707-1	65,000	8,100	97	44
Lug jaw (11-3/4" – 14-3/8")	30067	40,000	54,200	71	32
Lug jaw (16" – 17")	30069	40,000	54,200	83	38
Hinge jaw assembly (8-1/4" – 17")	30068-3	65,000	88,100	56	25

Part Description	Part No.	Torque Rating		Weight	
		Ft-lbs	Nu	Lbs	Kg.
AAX, range 2-7/8"- 13-3/8" rating 55,000 ft-lbs					
AAX, complete with long lever less lug jaws	8531-5025	55,000	74,600	360	164
AAX, complete with short lever less lug jaws	8531-5057	55,000	74,600	348	158
Lug jaw (2-7/8" – 3-3/4")	4522	55,000	74,600	35	16
Lug jaw(3-1/2" – 4-1/2")	4523	55,000	74,000	37	17
Lug jaw (4" – 5-1/4")	4528	55,000	74,000	35	16
Lug jaw (5" – 7-1/4")	4527	55,000	74,000	45	20
Lug jaw (6" – 6-1.2")	4526	55,000	74,000	35	16
Lug jaw (6-7/8" – 8-5/8")	8531-5192	55,000	74,000	62	28
Lug jaw (9"– 10-3/4")	4524	30,000	40,700	55	25
Lug jaw (10-3/4" – 11-3/4")	4529	30,000	40,700	70	32
Lug jaw (13-3/8")	4530	30,000	40,700	82	37
C. range 2-3/8" – 10-3/4", rating 35000 ft-lbs					
C, complete with long lever less lug jaws	30117-2	35,000	47,500	242	110
C, complete with short lever less lug laws	30117-3	35,000	47,500	238	108
Lug jaw (2-3/8"–3.688")	30728-1	35,000	47,000	25	11
Lug jaw (2-7/8"–4-1/4")	30727-1	35,000	47,000	29	13
Lug jaw (3-1/2"–5-1/4")	11939-4	35,000	47,000	33	15
Lug jaw (5-1/4"–7")	11940-2	35,000	47,000	45	20
Hinge & lug assembly (7" – 8-5/8")**	11941-1	35,000	47,000	61	28
Hinge & lug jaw assembly (9-5/8" – 10-3/4")	13799-1	35,000	47,000	76	35
Short jaw assembly (7-5/8" – 10-3/4")	11513-1	35,000	47,000	30	14
LF, range 2-3/8" – 7", rating 16000 ft-lbs					
LF, complete less lug jaws	30121	16,000	21,700	99	45
Lug jaw (2-3/8" – 3-1/2")	23911-1	16,000	21,700	12	5
Lug jaw (3-1/2" – 5")	23912-3	16,000	21,700	15	7
Lug jaw (4-3/4" – 6-1/4")	23913-1	16,000	21,700	24	11
Lug jaw (5-3/4 – 7")	25010-1	16,000	21,700	30	14
MS, range 1,900" – 6-1/8" rating 6500 ft-lbs					
MS, compl. Range 1.900"-4 ½" less lug jaws	30425	6,500	8,800	41	19
MS, compl.Range 4-1/2"-6-1/8"less lug jaws	31131	6,500	8,800	26	12
Lug jaw (1.900" – 2-1/16")	34311	6,500	8,800	4	2
Lug jaw (2-3/8" – 3.668")	30422-5	6,500	8,800	4	2
Lug jaw (3-1/2" – 4-1/2")	30424-5	6,500	8,800	5	2
Lug jaw (4-1/2" – 5-1/4")	33917-5	6,500	8,800	6	3
Lug jaw (5.200" – 6-1/8")	31139-5	6,500	8,800	6	3
Kelco Fulgrip K-30 2.062" – 4-125"	8527-5035	5,000	6,800	48	22
Kelco Fulgrip K-25 1.200" – 3.063"	8527-5016	2,000	2,700	21	10
Snap-on Tubing Tong 2-7/8" upset tubing coupling	36816-366	3,000	4,100	29	13
Snap-on Tubing Tong 3-1/2" tubing & 2-7/8" plain tubing coupling	36816-350	3,000	4,100	29	13
Snap-on Tubing Tong 2-3/8" upset tubing coupling	36816-306	3,000	4,100	25	11
Snap-on Tubing Tong 2-7/8" tubing & 2-3/8" plain tubing coupling	36816-287	3,000	4,000	25	11
Snap-on Tubing Tong 1.9" upset tubing coupling	26816-250	3,000	4,000	24	11
Snap-on Tubing tong 2-‘8"	36816-237	3,000	4,000	24	11

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

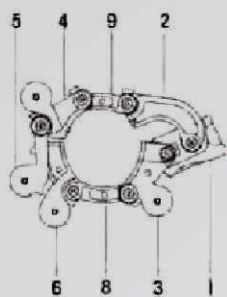


Fig A, 13.3/8"-14 1/2"

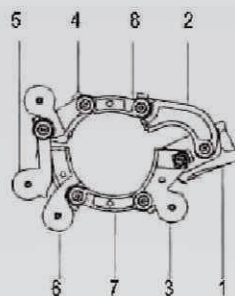


Fig B, 14.1/2"-16"

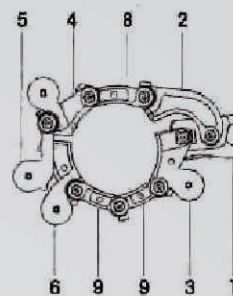


Fig C, 16"-17.1/2"

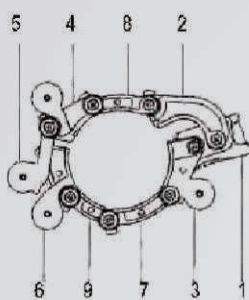


Fig D, 17.1/2"-19"

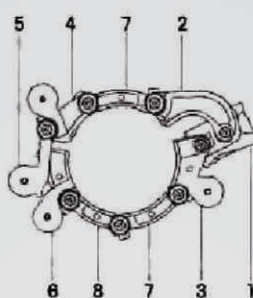


Fig E, 19"-20"

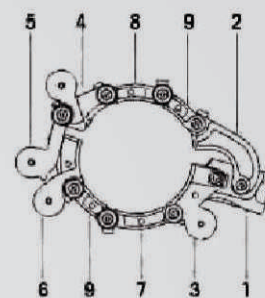


Fig F, 20"-21.1/2"

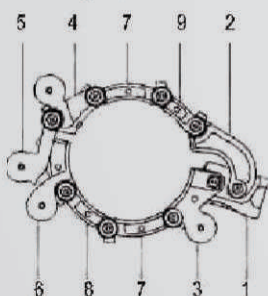


Fig G, 21.1/2"-23"

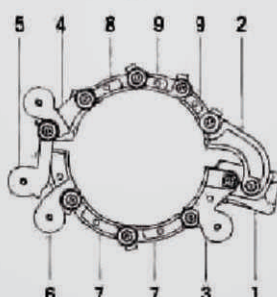


Fig H, 24"-25.1/2"

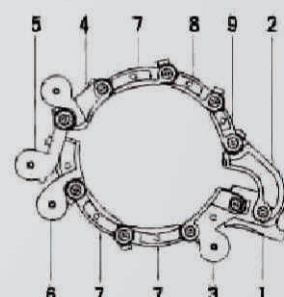


Fig I, 25.1/2"-27"

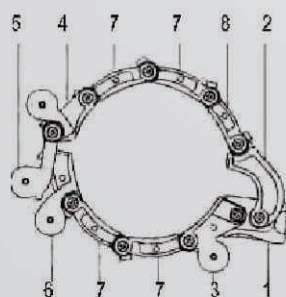


Fig J, 27"-28.1/2"

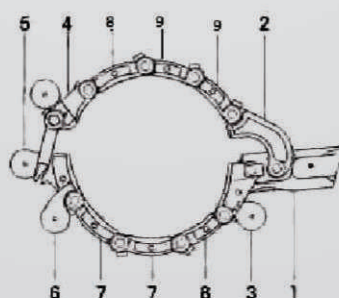


Fig K, 28.1/2"-30"

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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