

# Frank's Tong Pusher Arm



Positioning power tongs to and from well center requires placing personnel in hazardous areas and is physically demanding work. The tong is generally suspended from a line mounted in the derrick or mast, offset a distance from well center. This requires moving and holding the mass of the tong in position. The Tong Pusher Arm is designed to position the power tong mechanically, no longer relying on manpower to position and hold the tong in place. One tong operator is able to position the tong using the Pusher Arm. Modular construction allows the Pusher Arm to easily adapt to various size rigs.

A brake feature enables the tong operator to aim the tong at well center and then lock it in that orientation. The Pusher Arm uses air pressure from the rig to disengage the brake. The Pusher Arm also includes a sliding clutch feature to prevent overloading the derrick structure or the Pusher Arm.



**Tong Pusher Arm Extended**



**Tong Pusher Arm Retracted**

## SPECIFICATIONS:

Dimensions:

Stroke: 72 in.

Reach: 6 to 28 ft

Weight: 260 lbs. \*Excluding Extension Arm [33 + 16 lbs. per foot] as well as  
Mounting Brackets & Hardware

## Capabilities:

Can be used with the following FRANK'S power tongs (limited to tongs with backups):

Dual String Tong with Backup

4 1/2" Tubing Tong with Backup

7 5/8" Tong with Backup

14" Tong with Backup

Hawkjaw Tong

14 3/8" Power Tong with 15 1/2" Backup

14 3/8" Power Tong with 14 3/4" ZSL Backup

Able to push/pull up to 5500 lbs on tong hang line. See Table 1 for restrictions.

Able to operate in up to 3 degrees of rig pitch and roll. See Table 1 for restrictions.

14" Tong with Backup

Hawkjaw Tong

14 3/8" Power Tong with 15 1/2" Backup

14 3/8" Power Tong with 14 3/4" ZSL Backup

Table 1	Dual String w/BU	4 1/2" T.T. w/BU	7 5/8" w/Backup	14" Tong w/Backup	Hawkjaw Tong	14 3/8" w/BU	14 3/8" w/ZSL BU
Tong Hang Line Angle	20 Deg	20 Deg	20 Deg	20 Deg	20 Deg	17 Deg	16 Deg
Rig Pitch and Roll	3 Deg	3 Deg	3 Deg	3 Deg	3 Deg	2 Deg	1 Deg