

HYDRAULIC POWER TONGS  
TORQUE TURN SYSTEMS  
PIPE HANDLING TOOLS  
DIES & INSERTS  
SAFETY PRODUCTS



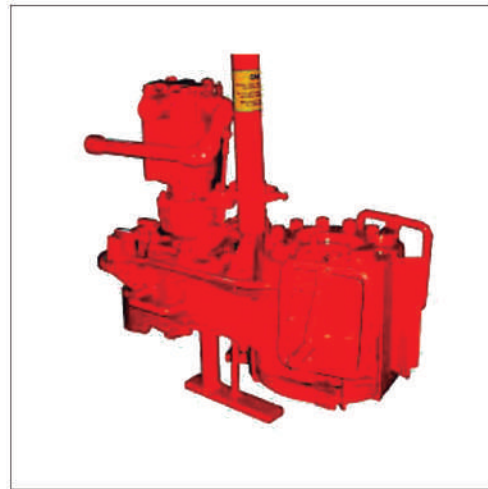
[www.m-o-t.com](http://www.m-o-t.com)



**ROD TONG**

**Rang: 5/8" - 1-1/8"**

**Max Torque Ratings: 1,200 - 4,000 Ft.-Lbs.**



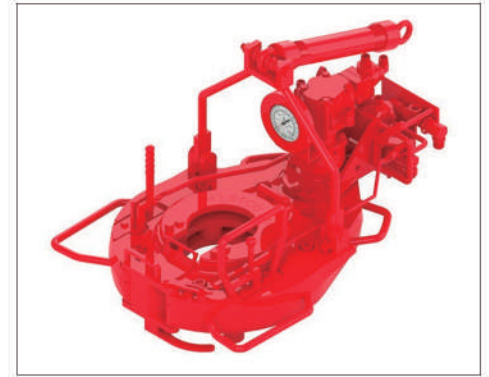
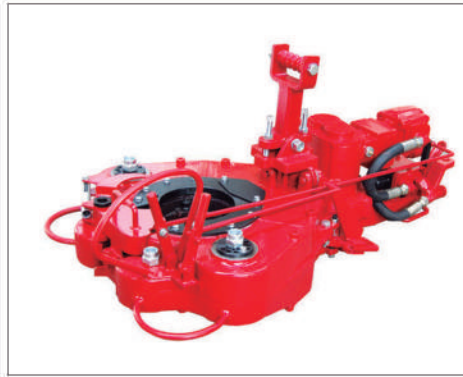
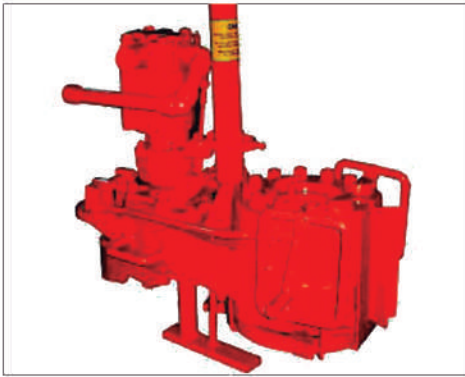
MODELS M20/ M40/M50/M75				500C		
CATALOG. N°	RANGE	HIGH GEAR	LOW GEAR	WEIGHT		
M20	5/8" - 1-1/8"	517 Ft.Lbs.	1200 Ft. Lbs.	230 Lbs.		
M40	5/8" - 1-1/8"	600 Ft.Lbs.	1600 Ft. Lbs.	363 Lbs.		
M50	5/8" - 1-1/8"	675 Ft.Lbs.	1900 Ft. Lbs.	363 Lbs.		
M75	5/8" - 1-1/8"	775 Ft.Lbs.	2800 Ft. Lbs.	366 Lbs.		
500C (Rod Tubing)	5/8" - 1-1/2"	1150 Ft. Lbs.	4000 Ft. Lbs.	430 Lbs.		
ACCESSORIES						
BACKUP:	OPTIONAL					
JAWS:	OPTIONAL					
SPRING HANGER:	INCLUDED					
INNER RING ASSEMBLIES AND BACK-UP WRENCHES						
Size of Road	1/2"	5/8"	3/4" , 7/8"	1"	1-1/8"	7/8" Rod with 1-1/8" Square
Rod Inner Ring	27899-2	27899		27899-4	27899-1	27899-3
Rod Back-Up Wrench	27898	27902	27903	27906	27907	27903-1
Size of Macaroni Tubing	1.050"	1.315"		1.660"	1.900"	
Tubing Inner Ring	30718	30716		30714	30712	



**TUBING TONG (OPEN FACE)**

Range: **1.05" - 4-3/4"**

Max Torque Ratings: 4,250 Ft-Lbs - 11,750 Ft-Lbs.



MODEL 500C		RS	4500/5500/5600	
CATALOG. N°	RANGE	HIGH GEAR	LOW GEAR	WEIGHT
500C (Rod Tubing)	1.05" - 3-1/2"	1150 Ft.Lbs.	4250 Ft. Lbs.	450 Lbs.
RS	1.05" - 4-1/2"	1150 Ft.Lbs.	4500 Ft. Lbs.	615 Lbs.
RS HT	1.05" - 4-1/2"	1600 Ft.Lbs.	6700 Ft. Lbs.	615 Lbs.
4500	1.05" - 4-3/4"	1600 Ft.Lbs.	6700 Ft. Lbs.	610 Lbs.
5500	1.05" - 4-3/4"	2200 Ft.Lbs.	8750 Ft. Lbs.	615 Lbs.
5600	1.05" - 4-3/4"	2850 Ft.Lbs.	11750 Ft. Lbs.	620 Lbs.
ACCESSORIES				
BACKUP:	OPTIONAL			
JAWS:	OPTIONAL			
SPRING HANGER:	INCLUDED			



**CASING TUBING (CLOSE FACE)**

Range: **15/16" - 10-3/4"**

Max Torque Ratings: 6,000 - 21,000 Ft-Lbs.

MODEL: 59-93R / 54-93 / 54-02				
CATALOG. N°	RANGE	HIGH GEAR	LOW GEAR	WEIGHT
58-93R	1-5/16" - 7"	300-1300Ft.Lbs.	6000 Ft. Lbs.	1000 Lbs.
54-93	1-5/16" - 7"	300-1500Ft.Lbs.	12000 Ft. Lbs.	1360 Lbs.
54-93HT	1-5/16" - 7"	300-1500Ft.Lbs.	18000 Ft. Lbs.	1400 Lbs.
54-02	2-3/8" - 10-3/4"	300-1500Ft.Lbs.	18000 Ft. Lbs.	1600 Lbs.
54-02HT	2-3/8" - 10-3/4"	300-1500Ft.Lbs.	21000 Ft. Lbs.	1650 Lbs.
ACCESSORIES				
BACKUP:	OPTIONAL			
JAWS:	OPTIONAL			
SPRING HANGER:	INCLUDED			



**SUCKER ROD TONG 5/8" - 1-1/8"**  
**MODEL: XQ29/2.6**



**ROD / TUBING TONG**  
**5/8" - 1-1/8" / 1.90" - 2-3/8"**  
**MODEL: XQ29/1.8**



**TUBING TONG 1.90" - 3-1/2"**  
**MODEL: XQ89/3YC**



**ROD TONG - MODEL: XYQ29/2.6**

CATALOG. N°	RANGE	HIGH GEAR	LOW GEAR	WEIGHT
XQ29/2.6Y	5/8" - 1 1/8"	700 Ft. Lbs.	2400 Ft. Lbs.	220 Lbs.

**ACCESSORIES**

MECHANICAL BACKUP:	INCLUDED
JAWS:	INCLUDED (5/8" - 1-1/8")
SPRING HANGER:	INCLUDED
DOOR INTERLOCK SYSTEM	OPTIONAL

**ROD - TUBING TONG**  
**MODEL: XQ29/1.8**

CATALOG N°	RANGE	HIGH GEAR	LOW GEAR	WEIGHT
XQ29/1.8		517 Ft.Lbs.	1330 Ft. Lbs.	230 Lbs.
ROD:	5/8" - 1-1/8"			
TUBING:	1.90" - 2-3/8"			

**ACCESSORIES**

HYDRAULIC BACKUP	INCLUDED
JAWS	INCLUDED FULL SET
SPRING HANGER	INCLUDED
DOOR INTERLOCK SYSTEM	OPTIONAL

**TUBING TONG**  
**MODEL: XQ89/3YC**

CATALOG N°	RANGE	HIGH GEAR	LOW GEAR	WEIGHT
XQ89/3YC	1.90" - 3-1/2"	811 Ft.Lbs.	2950 Ft. Lbs.	230 Lbs.

**ACCESSORIES**

HYDRAULIC BACKUP	INCLUDED
JAWS	INCLUDED 2-3/8" - 3-1/2"
SPRING HANGER	INCLUDED
DOOR INTERLOCK SYSTEM	OPTIONAL



**TUBING TONG 1.66" - 4-1/2"**  
**MODEL: XQ114/6B**



**TUBING TONG, 4-1/12" - MODEL: XQ114/6B**

CATALOG. N°	RANGE	HIGH GEAR	LOW GEAR	WEIGHT
XQ114/6YB	1.66" - 4 1/2"	1100 Ft. Lbs.	4400 Ft. Lbs.	485 Lbs.

**ACCESSORIES**

HYDRAULIC BACKUP	INCLUDED
TONG JAWS	INCLUDED "2-3/8" - 4-1/2"
BACKUP JAWS	INCLUDED "2-3/8" - 5-9/16"
SPRING HANGER	INCLUDED
HYDRAULIC LIFT	OPTIONAL
DOOR INTERLOCK SYSTEM	INCLUDED

**TUBING-DP-CASING-TONG**  
**2-3/8" - 5-1/2"**  
**MODEL: XQ140/12A**



**TUBING - DP- CASING TONG, 5-1/2"**  
**MODEL: XQ140/12A**

CATALOG. N°	RANGE	HIGH GEAR	LOW GEAR	WEIGHT
XQ140/12YA	2 3/8" - 5 1/2"	1900 Ft. Lbs.	8,850 Ft. Lbs.	1040 Lbs.

**ACCESSORIES**

HYDRAULIC BACKUP	INCLUDED
TONG JAWS	INCLUDED "2-3/8" - 5-1/2"
BACKUP JAWS	INCLUDED "2-3/8" - 6-1/8"
SPRING HANGER	INCLUDED
HYDRAULIC LIFT	INCLUDED
DOOR INTERLOCK SYSTEM	INCLUDED



Our **SNUBBING / WORKOVER** tubing tongs are powerful, efficient and reliable. The small size and light weight of the tongs makes them ideal for Snubbing and Workover operations.

**SNUBBING / WORKOVER  
TUBING TONG  
MODEL: XQ114-45MA**



**MODEL: XQ114-45M**

RANGE	HIGH TORQUE	LOW TORQUE	WEIGHT
1.66" - 4-1/2"	1,100 Ft. Lbs.	5,400 Ft. Lbs.	510 Lbs.
SYSTEM PSI	RPM HIGH	RPM LOW	WIDTH
1,800 Lbs.	85 RPM	20 RPM	19"

**ACCESSORIES**

HYDRAULIC BACKUP	INCLUDED
TONG JAWS	INCLUDED (2-3/8" - 4-1/2")
BACKUP JAWS	INCLUDED (2-3/8" - 5-9/16")
SPRING HANGER	INCLUDED
HYDRAULIC LIFT	OPTIONAL
LOAD CELL OPTION	OPTIONAL
DOOR INTERLOCK SYSTEM	INCLUDED

**SNUBBING / WORKOVER  
CASING TUBING TONG  
MODEL: XQ140-55MA**



**MODEL: XQ140-55M**

RANGE	HIGH TORQUE	LOW TORQUE	WEIGHT
2-3/8" - 5-1/2"	2,000Ft. Lbs.	10,000Ft. Lbs.	1,150 Lbs.
SYSTEM PSI	RPM HIGH	RPM LOW	WIDTH
2,000 Lbs.	70 RPM	15 RPM	23"

**ACCESSORIES**

HYDRAULIC BACKUP	INCLUDED
TONG JAWS	INCLUDED 2-3/8" - 5-1/2"
BACKUP JAWS	INCLUDED 2-3/8" - 6-1/8"
SPRING HANGER	INCLUDED
HYDRAULIC LIFT	INCLUDED
LOAD CELL OPTION	INCLUDED
DOOR INTERLOCK SYSTEM	INCLUDED



**DRILL PIPE/CASING TONG**  
**2-3/8" - 5-1/2"**  
**MODEL: ZQ127-25Y / ZQ127-20Y**



**DRILL PIPE / CASING TONG**

CATALOG. N°	RANGE	HIGH TORQUE	LOW TORQUE	WEIGHT
ZQ127-25Y	2-3/8" - 5-1/2'	18,439 #/FT	2,581 #/FT	1,433 LBS
ZQ127-20Y	2-3/8" - 5-1/2'	14,750 #/FT	1,770 #/FT	1,146 LBS

**ACCESSORIES**

HYDRAULIC BACKUP	INCLUDED
TONG JAWS FOR DRILL PIPE & CASING	INCLUDED (2-7/8" - 5-1/2")
BACKUP JAWS FOR DRILL PIPE & CASING	INCLUDED (4" - 6-1/8")
WRAPAROUND JAWS FOR TONG & BACKUP/TUBING & CASING	INCLUDED (2-3/8" - 5-1/2")
WRAPAROUND DIES FOR TONG & BACKUP	INCLUDED (2-3/8" - 5-1/2")
SPRING HANGER	INCLUDED
HYDRAULIC LIFT	OPTIONAL
LOAD CELL OPTION	INCLUDED
DOOR INTERLOCK SYSTEM	OPTIONAL



**CASING TUBING TONG**  
**RANGE: 2-3/8" - 5-1/2"**  
**MAX TORQUE: 19,750 Lbs - Ft**  
**MODEL: KMA-5500**



**MODEL: KMA-5500**

JAW RANGE	HIGH TORQUE	LOW TORQUE	TONG WEIGHT
2-3/8"- 5-1/2"	3,800 # / Ft.	19,750 # / Ft.	1,250 Lbs
SYSTEM PSI	RPM HIGH	RPM LOW	WIDTH
2,500 Lbs	82 RPM	17 RPM	26"

**ACCESSORIES**

HYDRAULIC BACKUP	OPTIONAL 2-3/8" - 6-1/4"
DIMENSION & WEIGHT	36" WIDE, 800 LBS.
SPRING HANGER	INCLUDED
HYDRAULIC LIFT BUCKET	OPTIONAL
DOOR INTERLOCK SYSTEM	INCLUDED

**CASING TUBING TONG**  
**RANGE: 2-3/8" - 7-5/8"**  
**MAX TORQUE: 35,000 Lbs - Ft**  
**MODEL: MA-7625**



**MODEL: MA-7625**

JAW RANGE	HIGH GEAR TORQUE	LOW GEAR TORQUE	TONG WEIGHT
2-3/8"- 7-5/8"	3,022 # / Ft.	35,376 # / Ft.	2,486 Lbs
SYSTEM PSI	RPM HIGH	RPM LOW	WIDTH
2,300 Lbs.	38 RPM	3.3 RPM	39.37"

**ACCESSORIES**

HYDRAULIC BACKUP	OPTIONAL 2-3/8" - 8-1/2"
WEIGHT	660 LBS
SPRING HANGER	INCLUDED
HYDRAULIC LIFT BUCKET	OPTIONAL
DOOR INTERLOCK SYSTEM	INCLUDED
NON-MARKING CHROME GRIP	OPTIONAL





**CASING TUBING TONG**

**RANGE:** 2-7/8" - 9-5/8"

**MAX TORQUE:** 27,000 Lbs - Ft

**MODEL:** KHT-9625



**KHT-9625 w / "A" Style BackUp**

**MODEL:** KHT-9625

JAW RANGE	HIGH GEAR TORQUE	LOW GEAR TORQUE	TONG WEIGHT
2-7/8"- 9-5/8"	2,850 # / Ft.	27,000 # / Ft.	1,750 Lbs
SYSTEM PSI	RPM HIGH	RPM LOW	WIDTH
2,300 Lbs.	65 RPM	6 RPM	31"

**ACCESSORIES**

HYDRAULIC BACKUP	OPTIONAL 2-7/8" - 10-1/2"
WEIGHT	930 LBS
SPRING HANGER	INCLUDED
HYDRAULIC LIFT BUCKET	OPTIONAL
DOOR INTERLOCK SYSTEM	INCLUDED

**CASING TUBING TONGS**

**RANGES:** 5-1/2" to 20"

**MAX TORQUES:** 25,000/50,000 Lbs-Ft

**MODELS:** TQ340-35/50/70/SE 16-25



**TQ340-35Y (Optional Backup)**

**MODEL:** TQ340-35Y

JAW RANGE	HIGH TORQUE	LOW TORQUE	TONG WEIGHT
4-1/2"- 13-3/8"	3,540 # / Ft.	25,800 # / Ft.	1,650 Lbs
SYSTEM PSI	RPM HIGH	RPM LOW	WIDTH
2,000 Lbs.	42 RPM	6 RPM	35.5"

**ACCESSORIES**

HYDRAULIC BACK UP	OPTIONAL
SPRING HANGER	INCLUDED
HYDRAULIC LIFT BUCKET	OPTIONAL



The “ZQ” series of hydraulic power drill pipe tongs are designed for quick and safe making up and breaking out of drill pipe and drill collars. These power tongs are widely used in oil and gas drilling, in land and offshore operations around the world. The “ZQ” series tong is designed, manufactured and tested according to API 7K specifications. The ZQ203 drill pipe power tong comes with the following features:

- ✓ The tong is open face, offering easy maneuvering and flexibility while operating.
- ✓ Integrated hydraulic torque tong and bucking tong in one single structure eliminates the need for cat head, manual tongs and spinning chains.
- ✓ The combined upper and lower tong structure avoids the possibility of bending the drill pipe under high torque application and prevents the pipe from slipping out of the spider or slips.
- ✓ With dual hydraulic and pneumatic control systems, the tong enhances safety and ease of operations by combining control during pipe gripping, door opening and closing; also during the push and pull cylinder operation.
- ✓ Automatic centering and gripping mechanism guarantees the reliable gripping of new and older joints.
- ✓ Fit for frequent and long period of operations, with features that provide safety and save time.
- ✓ Push and pull of the tong body is accomplished by the air cylinder action, instead of man power.
- ✓ Simple mechanism to control torque and speed. Maximum torque attained on both forward and reverse directions.
- ✓ Integrated air clutch allows shifting between high and low speeds with out stopping the tong.
- ✓ Integrated hydraulic lifting capabilities for tong height adjustment. (ZQ203-125II).

**DRILL PIPE TONG  
3-1/2”- 8”  
MODEL: ZQ203-125II**



DRILL PIPE TONG			
MODEL		ZQ203-100 II	ZQ203-125 II
DRILL PIPE	mm	127-203	127-203
	in	3 1/2”~8	3 1/2”~8
MAX TORQUE	kNm	100	125
	ft.lbf	73,750	92,200
SPEED (HIGH GEAR)	rpm	40	40
SPEED (LOW GEAR)	rpm	2.7	2.7
AIR PRESSURE	MPa	0.5-09	0.5-09
	psi	72.130	72.130
PRESSURE RATING	MPa	16.6	20.7
	psi	2,400	3,000
FLOW RATING	L/min	114	114
	gpm	30	30
SHIFFING DISTANCE	mm	1,500	1,500
	in	59	59
LIFTING DISTANCE	mm	0-430	0-430
	in	0-17	0-17
SIZE	mm	1760x1000x1630	1760x1080x1630
	in	69x39x64	69x42.5x64
WEIGHT	Kg	2,500	2,750
	lb	5,510	6,063



## SÓLO NK POWER TONG TORQUE TURN SYSTEM

With our SÓLO NK Torque Turn System you can monitor, record and control tubular connections make-up easily, accurately and reliably. Specially designed to work with our XQ/ZQ/TQ Series Power Tong, it allows the user to easily specify working parameters, control the make-up process to ensure optimal torque, record every joint and evaluate results for each connection. MOT also offers universal type and customized Torque Turn Systems.

### MODEL: SÓLO NK BASE MODEL



#### SYSTEM COMPONENTS:

PORTABLE COMPUTER	LAPTOP
POWER CONVERTER	NK-2A/485
TORQUE DISPLAY	NK-OLED
TORQUE SENSOR	NK - 1.5T
CROSS JOYSTICK	NK - 4X - Y
UPLOADING VALVE	NK- 14 -160
COMMUNICATION CABLE	NKTD -P25/5P

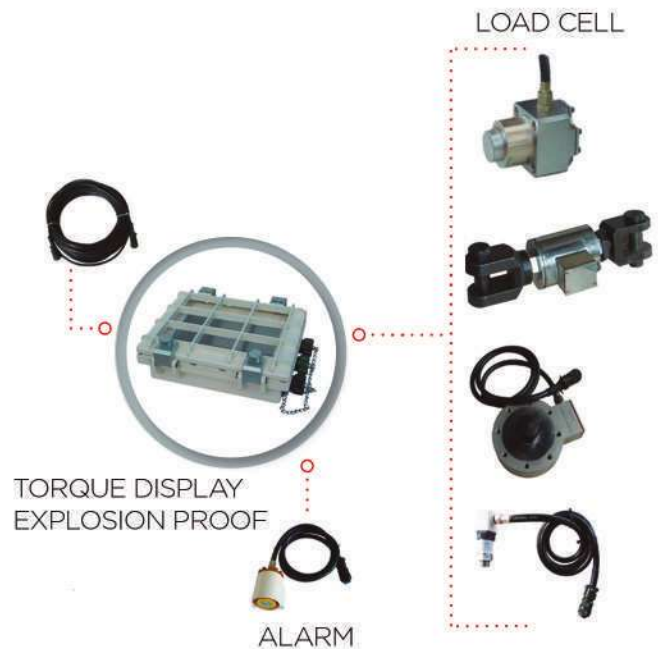




**MODEL: SÓLO NK  
WIRELESS OPTION**

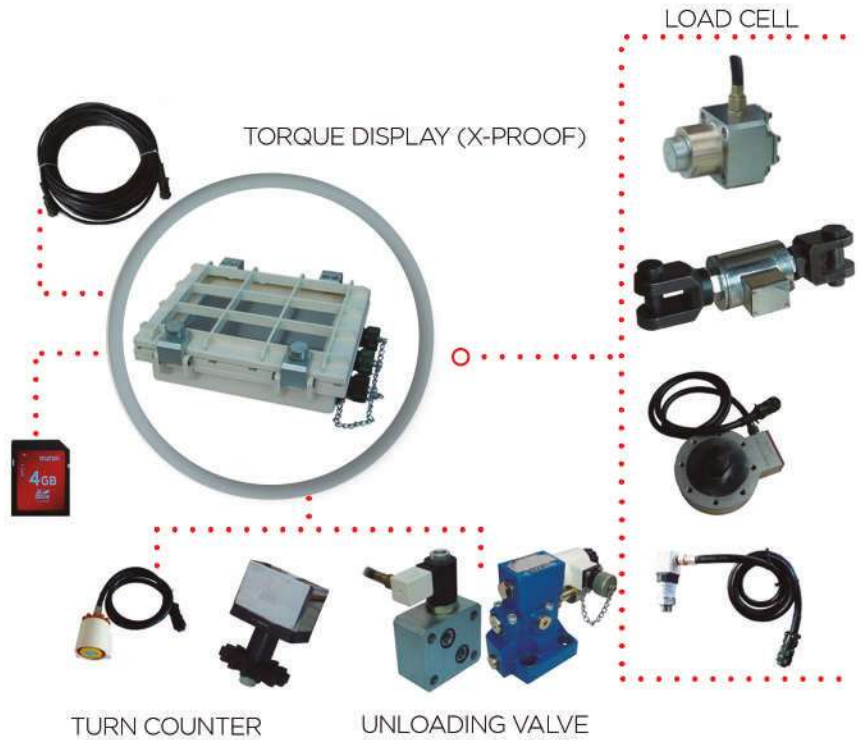


**MODEL: SÓLO NK  
EXPLOSION PROOF  
DISPLAY**

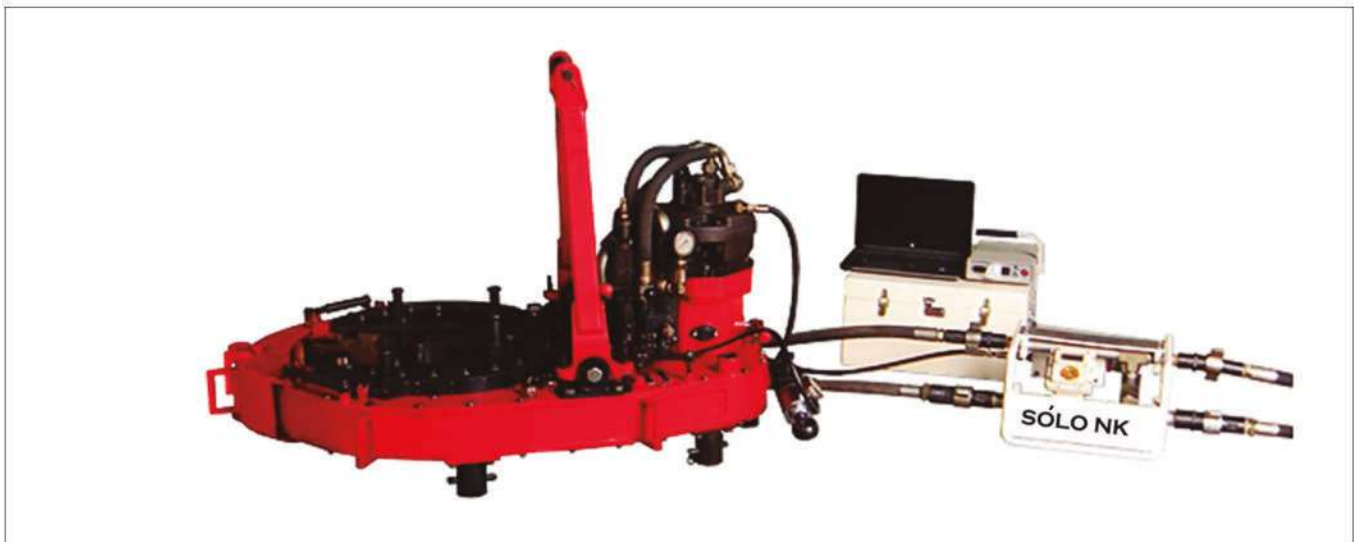




**MODEL: SÓLO NK**  
**TENSION LOAD CELL**



**MODEL: SÓLO NK**  
**UNIVERSAL TYPE**



**TORQUE TURN SYSTEM (UNIVERSAL TYPE)**



MANUAL TONGS are tools used in the makeup and breakout of tubular goods such as production tubing, drill pipe, drill collars and casing.

MOT offers BJ STYLE manual tongs that cover all pipe sizes up to 36" and torque ratings of up to 100,000 Ft-Lb. Each tong features a heavy duty design, with heat treated hinge pins and long lasting tong dies. They are designed and manufactured to API 7 K specifications.



**TYPE LF (16,000 FT/ Lbs Torque)**

Type LF Tongs are best suited for water well drilling, seismographic, mining and geothermal rigs. Sizes range from 2 3/8" through 7 1/4" OD. Additional hinge jaws are available to increase the size to 8 5/8" OD.

TYPE LF				
MODEL	LUG JAW No.	LUG JAW SIZE	TORQUE	
		In	kNm	Ft/Lbs
LF	No.1	2 3/8" - 3 1/2"	22	16,000
	No.2	3 1/2" - 5"		
	No.3	4 3/4" - 6 1/4"		
	No.4	5 3/4" - 7"		



**TYPE C (35,000 FT/ Lbs Torque)**

Type C Tongs are perfect for drill pipe or casing ranging from 2 3/8" to 10 3/4" OD and are most commonly found on smaller drilling rigs.

TYPE C				
LUG JAW No.	SHORT JAW No.	HINGER JAW No.	APPLICABLE PIPE DIAMETER	RATED TORQUE (Ft/Lbs)
			In	
No.1	No.1	/	2 3/8" - 3.668"	35,500
No.2	No.1	/	2 7/8" - 4 1/4"	
No.3	No.1	/	3 1/2" - 5 1/4"	
No.4	No.1	/	5-1/2" - 7"	
No.5	No.2	No.1	7" - 8 5/8"	
No.6	No.2	No.2	9 5/8" - 10 3/4"	



**TYPE B (55,000 FT/Lbs Torque)**

Type B Tong is the most popular size, accommodating pipe or casing from 3 1/2" through 13 3/8" OD.

TYPE B				
MODEL	LUG JAW No.	LUG JAW SIZE	TORQUE	
		In	kNm	Ft/Lbs
B	1	3 1/2" - 5"	75	55,000
	2	4 1/4" - 6 3/4"		
	3	6 5/8" - 9"		
	4	9" - 10 3/4"	55	40,000
	5	11 3/4"		
	6	12 3/4" - 13"	40	30,000
	7	13 3/8"		

**TYPE DB (65,000 FT/ Lbs Torque)**

A small step up from Type B, Type DB Tongs slightly increase the torque capacity and can handle 3" more (17" OD Max). Type DB and Type SDD are commonly found on larger drilling rigs.

TYPE DB				
MODEL	LUG JAW No.	LUG JAW SIZE	TORQUE	
		In	kNm	Ft/Lbs
DB	No.1	3 1/2" - 8 1/4"	90	65,000
	No.2	8" - 11 1/4"		
	No.3	11 3/4" - 14 3/8"	55	40,000
	No.4	16" - 17"		

**TYPE SDD (100,000 FT/ Lbs Torque)**

With the Type SDD Tongs, the OD capacity is similar to the Type DB, but the Torque Capacity is almost doubled.

TYPE SDD				
MODEL	LUG JAW No.	LUG JAW SIZE	TORQUE	
		In	kNm	Ft/Lbs
SDD	No.1	4" - 8 1/2"	135	100,000
	No.2	8 1/2" - 12"		
	No.3	12" - 15"	100	75,000
	No.4	15" - 3 3/4"	135	100,000
	No.5	16" - 17"	80	60,000



MANUAL TONGS are tools used in the makeup and breakout of tubular goods such as production tubing, drill pipe, drill collars and casing.

MOT offers BJ STYLE manual tongs that cover all pipe sizes up to 36" and torque ratings of up to 100,000 Ft-Lb. Each tong features a heavy duty design, with heat treated hinge pins and long lasting tong dies. They are designed and manufactured to API 7 K specifications.



**TYPE LF (16,000 FT/ Lbs Torque)**

Type LF Tongs are best suited for water well drilling, seismographic, mining and geothermal rigs. Sizes range from 2 3/8" through 7 1/4" OD. Additional hinge jaws are available to increase the size to 8 5/8" OD.

TYPE LF				
MODEL	LUG JAW No.	LUG JAW SIZE	TORQUE	
		In	kNm	Ft/Lbs
LF	No.1	2 3/8" - 3 1/2"	22	16,000
	No.2	3 1/2" - 5"		
	No.3	4 3/4" - 6 1/4"		
	No.4	5 3/4" - 7"		



**TYPE C (35,000 FT/ Lbs Torque)**

Type C Tongs are perfect for drill pipe or casing ranging from 2 3/8" to 10 3/4" OD and are most commonly found on smaller drilling rigs.

TYPE C				
LUG JAW No.	SHORT JAW No.	HINGER JAW No.	APPLICABLE PIPE DIAMETER	RATED TORQUE (Ft/Lbs)
			In	
No.1	No.1	/	2 3/8" - 3.668"	35,500
No.2	No.1	/	2 7/8" - 4 1/4"	
No.3	No.1	/	3 1/2" - 5 1/4"	
No.4	No.1	/	5-1/2" - 7"	
No.5	No.2	No.1	7" - 8 5/8"	
No.6	No.2	No.2	9 5/8" - 10 3/4"	





**MODEL : "TA" CENTER LATCH**



**TA Center Latch Elevators**, are used for handling collar type tubing.

Manufactured and Certified per API 8C Specifications (API Monogram Stamped).

When ordering, please specify:

- ✓ OD of tubular (Pipe)
- ✓ Type of tubular (drill pipe; casing; tubing)
- ✓ Plain or upset
- ✓ Ton Load Requirement (35; 65; 100; 150)

MODEL: "TA" CENTER LATCH				
PIPE	TUBING (UPSET / NON UPSET)			
MODEL	TA	TA	TA	TA
MAX LOAD (Tons)	35	65	100	150
API RANGE	1.050	1.66	-	-
	1.315	1.900	2-3/8	2-3/8
	1.660	2-3/8	2-7/8	2-7/8
	1.900	2-7/8	3-1/2	3-1/2
	2-3/8	3-1/2	4	4
	2-7/8	-	4-1/2	4-1/2
	-	-	-	5-1/2" to 8-5/8



**Purpose:** Single-joint , center-latch elevator designed to replace unsafe rope slings for hoisting collar-type pipe into position to be added to the string. The Type SJ enables the crew to handle pipe properly, help avoid damaged pipe threads and reduce the chances of accident or injury.

**Size Range:** All API sizes of collar-type drill pipe, casing and tubing from 2-3/8" (60.33mm) through 24-1/2" (622.3mm).


**ELEVATOR COMPLETE LESS SWIVEL SUSPENSION ASSEMBLY**

API SIZE		FRAME No.	WEIGHT Ea.	
in	mm		lb	Kg
2 3/8" - 3 1/2"	60.33 - 88.9	33010		
4" - 5 1/2"	101.6 - 139.7	33039	51	23.13
6 5/8" - 7 5/8"	168.28 - 193.68	33040	69	31.30
8 5/8" - 10 3/4"	219.08 - 273.05	33041	98	44.45
11 3/4" - 13 3/8"	298.45 - 339.73	33042	130	58.97
16" - 20"	406.4 - 508	33043	213	96.62
21 1/2" - 24 1/2"	546.1 - 622.3	33044	283	128.37

**REPLACEMENT PARTS - TYPE SJ ELEVATOR**

N° REQ.	PART. NAME	PART N°	DIMENSIONS		WEIGHT Ea.	
			in	mm	lb - Oz	Kg
1	HINGE PIN (4" - 13 3/8"/ 101.6 mm - 339.73 mm)	33032	1 X 4	25.4 X 101.6	0 - 15	0.43
1	HINGE PIN (16" - 24 1/2"/ 406.4 mm - 622.3 mm)	33033	13/16" X 4	30.16 X 101.6	1 - 4	0.57
1	LATCH	33026			1 - 12	0.79
1	LATCH SPRING	7829-1			0 - 1	0.03
1	LATCH PIN	33035		15.88 X 103.19	0 - 6	0.17
1	LATCH RETAINING PIN ASSY	34439	5/8" X 4 1/16"		1 - 0	0.45
1	SWIVEL SUSPENSION ASSY COMPLETE (OPT)	34568			25 - 0	11.34

**MODEL: "C" – 83 Ton**



**MOT** Tubing Spiders are pneumatic or hydraulic spiders with slips that handle tubing sizes from 1.315" to 5-1/2".

These slips are operated by a remote foot valve connected to the slip by a set of hoses, eliminating the need for lifting and setting the slips manually while tripping the string.

They are available in 83 Ton and 125 Ton versions. MOT's style tubing spiders operate using full circle wrap around inserts to prevent damage to the tubing. Construction is of high quality alloy steel that provides durability.

**MODEL: "CHD" – 125 Ton**



TUBING SPIDERS		
MODEL	TYPE C (83 TON)	TYPE CHD (125TON)
CAPACITY Lbs/ (Kg)	165,000 (74,850)	250,000 (113,400)
WEIGHT w/ Slips Lbs/ (Kg)	430 (195)	480 (218)
HEIGHT	16 1/2"	16 1/2"
BASE DIMENSION	16 1/2" X 18 1/2"	16 1/2" X 18 1/2"
GATE OPENING	5 3/4"	5 3/4"
BOWL OPENING	6 1/2" DIAMETER	6 1/2" DIAMETER
TUBULAR RANGE	1.315 - 5 1/2"	1.315 - 5 1/2"
SPIDER ASSEMBLY (LESS SLIPS)		
PNEUMATIC	65000-100	650000HD-100
HYDRAULIC	650000H-100	650000HDH-100
HYDRAULIC / INVERTED / SNUBBING	N/A	650000HDHS-100
SLIP BODY, 3-1/2", SIDE LOAD	65622-100	
SLIP BODY, 3-1/2", TOP LOAD	65622TL-100	
SLIP BODY, 4-1/2", SIDE LOAD	65623-100	
INTEGRAL SLIPS BODY		
4-3/4" (120.7 mm) TUBING	65624-4.75	55 Lb (25 Kg)
5" (127.0 mm) TUBING	65624-1	50 LB (22.7 Kg)
5-1/2" (139.7 mm) TUBING	65624-2	45 Lb (20.4 Kg)



**SDS, SDML, and SDXL Rotary Slips** are for use in API standard insert bowls. Featuring better contact and distribution of load on drill pipe thru a superior wraparound configuration and unique insert design, these slips prevent bottlenecking and gouging damage. The buttress design of the body segments provides great strength while minimizing weight for ease of handling.

Varco style rotary slips provide long and trouble-free service under the most severe conditions. Inserts are held securely in dovetail slots. Inserts are changed by removing the nuts, bolts, and retainers at the top of the slots.


**SDS- Short Rotary Slips & SDS Inserts**

Slip Body Size (in.)		3-1/2			4-1/2		
Pipe Sizes (in.)		2-3/8	2-7/8	3-1/2	3-1/2	4	4-1/2
P/N: Slip W/inserts		3901	3903	3905	3907	3909	3911
Wt: Slip W/Insert lbs (kg)		134 (61)	128 (58)	124 (56)	162 (73)	155 (70)	146 (66)
Insert Set	P/N	2160-24	2161-24	2162-24	2163-36	2164-36	2165-36
	Wt-lbs (kg) Qty	21 (9.5) 24	16 (7) 24	10 (4.5) 24	32 (14.5) 36	25 (11) 36	16 (7) 36

**SDML- Medium Rotary Slips & SDML Inserts**

Slip Body Size (in.)		3-1/2			4-1/2			5			5-1/2		
Pipe Sizes (in.)		2-3/8	2-7/8	3-1/2	3-1/2	4	4-1/2	4	4-1/2	5	4-1/2	5	5-1/2
P/N: Slip W/inserts		15524	15523	15522	15563	15564	15565	15567	15568	15569	15571	15572	15573
Wt: Slip W/Insert lbs (kg)		193 (87.5)	188 (85)	180 (81.5)	207 (94)	199 (90)	188 (85)	204 (92.5)	196 (89)	185 (84)	200 (91)	192 (87)	181 (82)
Insert Set	P/N	2160-30	2161-30	2162-30	2163-45	2164-45	2165-45	2168-45	2166-45	2167-45	2168-45	2169-45	2170-45
	Wt-lbs (kg) Qty	26 (12) 30	21 (9.5) 30	13 (6) 30	39 (17.5) 45	31 (14) 45	20 (9) 45	39 (17.5) 45	31 (14) 45	20 (9) 45	39 (17.5) 45	31 (14) 45	20 (9) 45

**SDXL- Extra Long Rotary Slips & SDXL Inserts**

Slip Body Size (in.)		4-1/2			5			5-1/2		
Pipe Sizes (in.)		3-1/2	4	4-1/2	4	4-1/2	5	4-1/2	5	5-1/2
P/N: Slip W/inserts		15515	15514	15513	15518	15517	15516	15521	15520	15519
Wt: Slip W/Insert lbs (kg)		229 (104)	219 (99)	205 (93)	237 (107.5)	227 (103)	213 (96.5)	234 (106)	224 (101.5)	210 (95)
Insert Set	P/N	2163-54	2164-54	2165-54	2168-54	2166-54	2167-54	2168-54	2169-54	2170-54
	Wt-lbs (kg) Qty	47 (21) 54	37 (17) 54	23 (10.5) 54	47 (21) 54	37 (17) 54	23 (10.5) 54	47 (21) 54	37 (17) 54	23 (10.5) 54



**CMS-XL - Extra-Long Multi-Segment Casing Slips**

Today's deeper drilling calls for long and heavy casing strings. Varco has slips to handle any casing job.

**MOT CMS-XL** slips are manufactured from drop forgings, reinforced to take severe service. The self centering full wraparound grip prevents damage to casing. With certain simple adjustments, the CMS-XL can accommodate casing from 6-5/8 to 30 inches OD. All Varco slips have an API taper of 4 in./ft on the diameter.

Casing OD (in.)	6-5/8	7	7-5/8	8-5/8	9-5/8*	10-3/4*	11-3/4*	13-3/8*	16*	18-5/8*	20*	24*	26*	30*
P/N Slip complete	5315	5301	5303	5305	5307	5309	5311	5313	5325	5333	5329	5331	5346	5342
Weight, complete														
lbs	154	160	166	181	192	209	260	247	308	367	383	443	486	546
(kg)	(70.0)	(73)	(75)	(82)	(87)	(95)	(118)	(112)	(140)	(166.5)	(174)	(201)	(220.5)	(247.5)
Total Segments	12	12	12	13	14	15	17	18	21	25	26	30	33	37
Total Hinge Pins	11	11	11	12	13	14	16	17	20	24	25	29	32	36

\*This size is furnished with four handles

CMS-XL Part List		
DESCRIPTION	PART. N°	WEIGHT lbs (kg)
Segment—Right End	5320	12 (5.5)
Segment —Left End	5321	12 (5.5)
Segment—Intermediate	5322	12 (5.5)
Hinge Pin with Cotter Pin	2525	.6 (0.3)
Handle Pin w/Wshr & Cotter Pin	3769	.5 (0.2)
Handle, Right & Left Segment	3765	3.5 (1.5)
Handle, Intermediate Segment	3766	4(2)
Retaining Screw w/Lockwasher	3748	.3 (0.14)
Retaining Cotter Pin	71936	—



CP-S Conductor Pipe Slip			
Pipe OD (In.)	24	26	30
P/N Slip complete	5338	5344	5340
Weight Complete			
lbs (kg)	276 (125)	296 (134)	319 (145)
Total Segments	13	14	16
Total Hinge Spacers	12	13	15

All CP-S slips are furnished with four handles. All parts except Hinge Spacer Block, P/N: 11944, are interchangeable with CMS-XL Slips.

Circular Buttons for CMS-XL & CP-S				
Slip Set	Casing OD (In.)	Circular Buttons		
		Part No	Weight Lbs. (kg)	Qty
CMS-XL	6-5/8	2628-144	36 (16)	144
	7	2619-144	36 (16)	144
	7-5/8	2630-144	24(11)	144
	8-5/8	2630-156	26 (12)	156
	9-5/8	2630-168	28 (13)	168
	10-3/4	2630-180	30 (14)	180
	11-3/4	2627-204	51 (23)	204
	13-3/8	2630-216	36 (16)	216
	16	2631-252	43 (19.5)	252
	18-5/8	2626-300	60 (27)	300
	20	2631-312	52 (23.3)	312
	24	2631-360	60 (27)	360
	26	2631-396	64 (29)	396
	30	2631-444	72 (32.5)	444
CPS	24	2631-156	26 (12)	156
	26	2631-168	28 (13)	168
	30	2631-192	32 (14.5)	192


**DCS Drill Collar Slips**

MOT drill collar slips provide superior holding power. Each slip segment is a rugged drop forging, with an extra long back to provide maximum support to the circular button gripping elements. Full wraparound design and circular buttons assure positive holding and slip setting. Drill collar slips are flat on top to accommodate the MP Clamp. All Varco slips have an API taper of 4 in./ft on the diameter.

**DCS- Multi Segment Drill Collar Slips**

Slip Type	DCS-S		DCS-R		DCS-L					
	3 - 4	4 - 4-7/8	4-1/2 - 6	5-1/2 - 7	6-3/4 - 8-1/4	8 - 9-1/2	8-1/2 - 10	9-1/4 - 11-1/4*	11 - 12-3/4*	12 - 14*
P/N, Slip complete	2572	2573	2552	2550	2503	2507	2530	2508	2534	2636
Weight, complete lbs (kg)	112 (51)	103 (47)	120 (54)	112 (51)	154 (70)	173 (78)	185 (84)	198 (90)	213 (96.5)	207 (94)
Total Segments	7	7	9	9	11	12	13	14	17	17
Total Hinge Pins	6	6	8	8	10	11	12	13	16	16
Use in Insert Bowl	No. 3 Regular or Extended					No.3 Ext.	No. 2		No. 1	

**\*This size is furnished with four handles**

**Circular Buttons for DCS Slips**

Circular Buttons				
Slip Set	Drill Collar OD (in.)	P/N	Weight lbs (kg)	Qty
DCS-S	3-4	2828 - 49	13 (6)	49
	4 - 4-7/8	2620 - 49	8 (3.5)	49
DCS-R	4-1/2 - 6	2628 - 63	16 (7)	63
	5-1/2 - 7	2620 - 63	11 (5)	63
DCS-L	5-1/2 - 7	2513 - 88	22 (10)	88
	6-3/4 - 8-1/4	2630 - 88	15 (7)	88
	8 - 9-1/2	2630 - 96	16 (7)	96
	8-1/2 - 10	2627 - 104	26 (12)	104
	9-1/4 - 11-1/4	2630 - 112	19 (8.5)	112
	11 - 12-3/4	2625 - 136	13(6)	136
	12 - 14	2630 - 136	16(7)	136

**Part List**

Slip Type	DCS-S		DCS-R		DCS-L	
	P/N	Weight lbs (kg)	P/N	Weight lbs (kg)	P/N	Weight lbs (kg)
Segment—Right End	2568	11 (5)	2554	10 (4.5)	2510	12 (5.5)
Segment—Left End	2569	11 (5)	2555	10 (4.5)	2511	12 (5.5)
Segment—Intermediate	2570	11 (5)	2556	10 (4.5)	2512	12(5.5)
Hinge Pin w/Cotter Pin	2525	5 (0.2)	2525	5 (0.2)	2520	.7 (0.3)
Handle Pin w/Washer & Cotter Pin	3769	5 (0.2)	3769	5 (0.2)	3769	.5 (0.2)
Handle- Right & Left End Segment	3765	3.5 (1.5)	3765	3.5 (1.5)	3765	3.5 (1.5)
Handle for Intermediate Segments	3766	4 (2)	3766	.4 (2)	3766	4(2)
Retaining Cotter Pin	71936	—	71936		71936	



**MOT&S Sucker Rod Elevators**, are manufactured from heat-treated alloy steel for maximum strength and durability. All of our models are manufactured to the highest standards of quality and under API specifications.

We offer both Solid Body and Plate Type rod elevators. Plate type elevators have the advantage of offering interchangeable heat treated steel plates for different rod sizes that can be replaced when worn to the limit.

**MODEL "SB" SOLID TYPE**


- ✓ Size Ranges covered: 5/8" - 1-1/2".
- ✓ Rated capacity: 25 Tons.
- ✓ Types Offered: Solid Body & Plate Type.
- ✓ API Certified & Monogrammed

**SUCKER ROD ELEVATORS SOLID TYPE, MODEL "SB"**

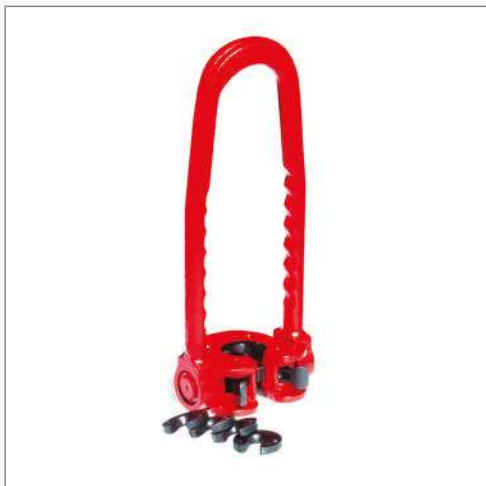
CATALOG. N°	ROD SIZE	WEIGHT	RATE LOAD
SB-104	5/8" , 3/4"	32 lbs.	25 tons
SB-105	3/4" , 7/8"	32 lbs.	25 tons
SB-106	1"	32 lbs.	25 tons
SB-107	1-1/8"	32 lbs.	25 tons

**POLISHED ROD**

CATALOG. N°	ROD SIZE	WEIGHT	RATE LOAD
SB-113	1-1/4"	33 lbs.	25 tons
SB-115	1-1/2"	33 lbs.	25 tons

**REPAIR KITS**

RKSB104 107	Repair Kit F/Sucker Rod Elevator "SB", 5/8"-1-1/8"
RKSB113	Repair Kit F/Sucker Rod Elevator "SB", 1" - 1/4"
RKSB115	Repair Kit F/Sucker Rod Elevator "SB" 1-1/2"

**MODEL "PT" PLATE TYPE**

**SUCKER ROD ELEVATORS PLATE TYPE, MODEL "PT"**

CATALOG. N°	ROD SIZE	WEIGHT	RATE LOAD
PT-106A	Body Only (5/8" - 1")	32 lbs.	25 tons
PT-106B	Body Only (1-1/8" - 1-1/2")	32 lbs.	25 tons
PT-106C	Body Only (1-1/2")	32 lbs.	25 tons

**PLATE INSERT**

CATALOG. N°	ROD SIZE	WEIGHT	RATE LOAD
P-65	5/8" , 3/4"	8 onz.	n/a
P-76	3/4" , 7/8"	8 onz.	n/a
P-80	1"	8 onz.	n/a
P-88	1-1/8"	8 onz.	n/a
P-113	1-1/4"	8 onz.	n/a
P-115	1-1/2"	8 onz.	n/a

**REPAIR KITS**

RKPT106	Repair Kit F/Sucker Rod Elevator "PT", 5/8" - 1-1/2" (Less Plate Inserts)
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**SUCKER ROD HOOK**  
**MODEL: RH-25S**



**SUCKER ROD HOOK**  
**MODEL: RH-25L**



**SUCKER ROD HOOK**  
**MODEL: RH-35**



SUCKER ROD HOOKS			
MODEL	RATED CAPACITY (u.s tons)	LENGTH (in./mm)	WEIGHT (lbs./kg)
RH-25S	25	$\frac{20}{494}$	$\frac{48}{22}$
RH-25L	25	$\frac{31}{798}$	$\frac{99}{45}$
RH-35	35	$\frac{38}{960}$	$\frac{119}{54}$
REPAIR KITS			
RH-25SRK	25 Ton Repair Kit Includes: 1 Spring Housing, 1 Latch, 1 Lever, 1 Lever Pin, 1 Latch Pin, 1 Spring		$\frac{11}{5}$
RH-25LRK	35 Ton Repair Kit Includes: 1 Latch, 1 Latch Handle, 1 Latch Spring, 2 Roll Pins, 1 Comp. Spring, 1 Clevis Pin		$\frac{18}{8}$
RH-35SRK	35 Ton Repair Kit (Includes: 1 Latch, 1 Latch Handle, 1 Latch Spring, 2 Roll Pins, 1 Comp. Spring, 1 Clevis Pin		$\frac{22}{10}$

**MOT&S Sucker Rod Hooks**

Are designed and manufactured according to API Spec 8A/8C Specifications for Drilling and Well Servicing hoisting equipment. They are suitable for all depths and operating conditions.

**FEATURES:**

- Designed for 25 Ton and 35 Ton load ratings.
- Choice of Short and Long Models.
- Special design snap-in latch mechanism permits elevator bail to hook in without operator releasing latch, and held secure until released.





SUCKER ROD WRENCH			
CATALOG P/N:	SIZE OF SQUARE	SIZE OF ROD	LENTH
M-QA1-16	7/8"	5/8"	16"
M-QA1-19	7/8"	5/8"	19"
M-QA2-16	1"	3/4", 7/8"	16"
M-QA2-19	1"	3/4", 7/8"	19"
M-QA2-19R	1-1/8"	3/4", 7/8"	19"
M-QA4-19	1-5/16"	1"	19"
M-QA4-24	1-5/16"	1"	24"
M-QA5-19	1-1/2"	1-1/8"	19"
M-QA5-24	1-1/2"	1-1/8"	24"



**Sucker Rod Wrenches**

Our Sucker Rod Wrenches are made of high-quality alloy steel, which boasts the advantage of hardness and abrasion resistance.

**FEATURES:**

- Smooth “snap-up” hammer-action to quickly break the toughest sucker rod or rod coupling joint.
- Balanced design that reduces fatigue of users.


**TYPE "T"**

**TYPE "T" Safety Clamps**

The **Type "T"** Safety Clamp is designed for small diameter pipe 1-1/8" thru 4-1/2" OD. Each link changes the effective working range approximately 1" in diameter. For sizes larger than 4-1/2" OD, the Type "C" Safety Clamp should be used.

**TYPE "C"**

**TYPE "C" Safety Clamps  
For Drill Strings and Casing**

Designed for larger diameter pipe 3-3/4" thru 15-5/8".

**Simple to Use**

✓ To help guard against dropping flush-joint or streamlined tools through the table, wrap the Safety Clamp around the pipe, drop in the pin and tighten with the wrench.

✓ A "Slip and Elevator" combination can be rigged up by using a line fastened to the Lifting Clevises and looped through the hook.

**TYPE "T" STYLE SAFETY CLAMP**

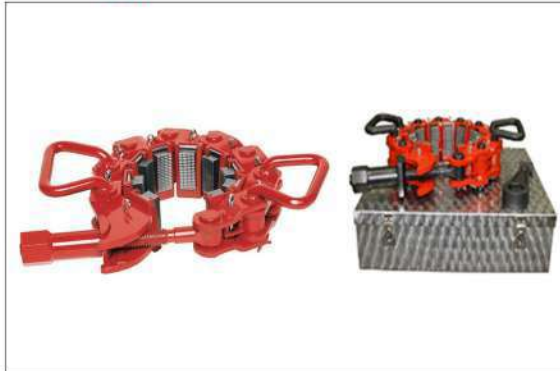
T STYLE SAFETY CLAMP	RANGE
M-7624-5044	1-1/8" - 2"
M-7624-5045	2-1/8" - 3-1/4"
M-7624-5046	3-1/4" - 4-1/2"

**TYPE "C" STYLE SAFETY CLAMP**

PART NUMBER	RANGE
M-7624-5007	3-3/4" - 4-5/8"
M-7624-5008	4-1/2" - 5-5/8"
M-7624-5009	5-1/2" - 6-5/8"
M-7624-5010	6-1/2" - 7-5/8"
M-7624-5011	7-1/2" - 8-5/8"
M-7624-5012	8-1/2" - 9-5/8"
M-7624-5013	9-1/2" - 10-5/8"
M-7624-5014	10-1/2" - 11-5/8"
M-7624-5015	11-1/2" - 12-5/8"
M-7624-5016	12-1/2" - 13-5/8"
M-7624-5017	13-1/2" - 14-5/8"
M-7624-5018	14-1/2" - 15-5/8"

**TYPE "C & T" SAFETY CLAMP PARTS**

DESCRIPTION	TYPE C PARTS	TYPE T PARTS
Link Assembly Complete	M-7624-A-7	M-7624-B-7
Intermediate Link	M-7624-A-1	M-7624-A-18
Slip w/ Cotter Pin	M-7624-A-4	M-7624-A-21
Slip Spring	M-7624-E-5	M-7624-B-21
Link Pin w/ Cotter Pin	M-7624-C-5	
End Link (Screw Side)	M-7624-A-3	M-7624-A-20
End Link (Pivot Block Side)	M-7624-A-24	M-7624-A-19
End Link Pin w/ Chain	M-7624-F-5	
Screw	M-7624-A-5	
Nut	M-7624-B-5	
Wrench	M-7624-A-25	
Pivot Block	M-7624-A-5000	
Pivot Block Pin	M-7624-D-5	
Handle	M-7624-A-6	M-7624-A-22
Handle Link Pin w/ Cotter	M-7624-G-5	
Safety Clamp Box	M-7624-A-36	M-7624-A-9


**TYPE "MP"**

**TYPE "MP" Safety Clamps**  
**Multipurpose Safety Clamp**

The **Type "MP"** Safety Clamp is designed for production tubing and larger diameter pipe 2-3/8" thru 19-3/8" OD.

The tool you need for safest handling of flush joint pipe and drill collars.

The **"MP"** Clamp can act as a shoulder elevator, if needed, or fitted with lifting eye to handle large diameter pipe.

This versatile tool can also be inverted and fitted with holddown lugs for use in all types of snubbing operations.

For maximum durability and long life in the field, interchangeable handles, lifting eyes and holddown lugs are forged, heat treated steel.

TYPE "MP" STYLE SAFETY CLAMP		
STYLE	SIZE RANGE	PART NUMBER
MP-S	2-7/8" - 4-1/8"	M-33030
	4" - 5"	M-33031
MP-R	4-1/2" - 5-5/8"	M-33011
	5-1/2" - 7"	M-33012
	6-3/4" - 8-1/4"	M-33013
	8" - 9-1/4"	M-33014
	9-1/4" - 10-1/2"	M-33015
MP-M	10-1/2" - 11-1/2"	M-33016
	11-1/2" - 12-1/2"	M-33017
	12-1/2" - 13-5/8"	M-33018
	13-5/8" - 14-3/4"	M-33019
	14-3/4" - 15-7/8"	M-33020
MP-L	15-7/8" - 17"	M-33021
	17" - 18-1/2"	M-33022
	18-1/8" - 19-3/8"	M-33023
MP-XL	19-3/8" - 20-3/8"	M-33024
	20-3/8" - 21-1/2"	M-33025
	21" - 22-5/8"	M-33032
	22-5/8" - 23-3/4"	M-33033
	23-3/4" - 24-7/8"	M-33034
	24-7/8" - 26"	M-33035
	26" - 27-1/8"	M-33036
29-3/8" - 30-1/2"	M-33039	

TYPE "MP" SAFETY CLAMP PARTS	
PART NUMBER	DESCRIPTION
M-3335	Link Assembly Complete (S Only)
M-3319	Link Assembly Complete (R, M & L)
M-3306	Link w/ Cotter Pin
M-3307	Pin w/ Cotter Pin
M-3325	Die Carrier Assembly (S Only)
M-3324	Die Carrier Assembly (R, M & L)
M-3309	Die Carrier
M-3311	Spring
M-51604-18	Roll Pin
M-51405-28	Cotter Pin
M-3318	Side Link Bar
M-3304	Link Latch (S, R, M & L)
M-3321	Link Latch (XL Only)
M-3308	Screw Pin w/ Cotter Pin
M-3315	Screw Pin Bushing
M-51405-10	Cotter Pin
M-3302	Screw
M-2714	Thrust Washer
M-3303	Makeup Nut
M-3305	Handle
M-3320	Wrench
M-3331	Box



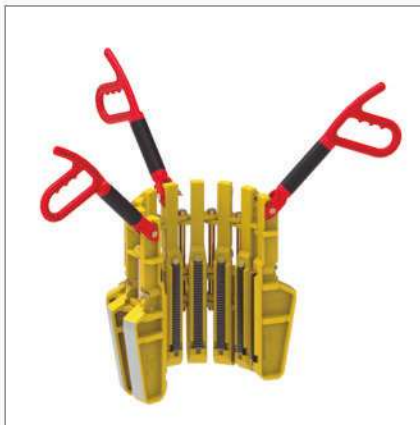
Safety Flex Handles

Flex handles allow safer and much easier handling and operation of manual rotary slips. **MOT** offers a wide selection of safety flex handles to fit your needs.

**MOT** Flex Handles fit the slip universally, the same handle is used for right, center and left.

FLEX HANDLES	
CATALOG. N°	SLIP TYPE
3088V	Varco SD, DC and CMSXL Flex Handle
3088WB	Wooley B Flex Handle
3088WA	Wooley A and C-1 Flex Handle
3088UC	UC Flex Handle
3088DU	DU Flex Handle*

\*The DU center handle is different. When not ordering a complete set it must be specified whether left, right or center is required.



Drill Collar Slip with Flex Handles



Rotary Slip with Flex Handles





**MOT** carries dies and inserts that are accurately machined to exact tolerances using state of the art CNC machines. All dies and inserts are then heat treated to provide maximum insert life.

We offer a full range of dies and inserts for our power and manual tongs, safety clamps, spiders and slips.

### 1-1/4" WIDE MANUAL TONG DIES



MANUAL TONG DIES		
SIZE	TOOTH TYPE	REF #
1/2" X 1-1/4" X 5-7/8"	PYRAMID	16401-2
1/2" X 1-1/4" X 5-7/8"	BLUE DIAMOND	16401-6
1/2" X 1-1/4" X 5"	PYRAMID	16402-2
1/2" X 1-1/4" X 5"	BLUE DIAMOND	16402-6
1/2" X 1-1/4" X 3-7/8"	PYRAMID	24768-2

### TEDA STYLE "XQ" POWER TONG DIES



TEDA STYLE		
SIZE	MODEL TONG	REF #
2-3/8" - 2-7/8", (60-78)	XQ114	Z6731
3-1/2" - 4-1/2", (89-141)	XQ114	76732
2-3/8" - 2-7/8", (73-78)	XQ140	12AZ1101
3-1/2" - 4-1/2", (89-114)	XQ140	12AZ1102
5" - 5-1/2", (121-156)	XQ140	12AZ1103



**INSERTS FOR SDS / SDML / SDXL  
ROTARY SLIPS**



Even load distribution and insert contact are the qualities necessary for rotary and casing slip inserts. MOT offers high quality replacements for worn or damaged gripping dies.

MOT inserts are designed to fall midway between high and low ratio in pounds per linear inch of contact. The rotary slip insert gripping dies have a 0.01 inch flat on top of each tooth. This flat area willpeen, rather than cut, the metal of the pipe, reducing the occurrence of potential stress risers.

Number of Inserts Required								
#REF	DESCRIPTION	SLIP SIZE IN INCHES	PIPE SIZE IN INCHES (OD)	SDS	SDML AND SDM	SDXL	SDL	
2160	Reducer	3½	2¾	24	30		36	0.87
2161	Reducer	3½	2¾	24	30		36	0.64
2162	Basic	3½	3½	24	30		36	0.42
2163	Reducer	4½	3½	36	45	54	54	0.81
2164	Reducer	4½	4	36	45	54	54	0.61
2165	Basic	4½	4½	36	45	54	54	0.42
2168	Reducer	5	4		45	54	54	0.81
2166	Reducer	5	4½		45	54	54	0.63
2167	Basic	5	5		45	54	54	0.42
2168	Reducer	5½	4½		45	54	54	0.81
2169	Reducer	5½	5		45	54	54	0.61
2170	Basic	5½	5½		45	54	54	0.42
2172	Reducer	7	6¾			60	60	0.61
2173	Basic	7	7			60	60	0.42


**CAVINS STYLE  
FULL CIRCLE INSERTS**

**SAFETY CLAMP  
REPLACEMENT DIES**

**CAVINS STYLE**

SIZE / DESCRIPTION	PART
REPLACEMENT INSERTS FOR MODEL "B", "C" AND "CHD" TUBING SPIDER (3-1/2" BODY)	REF #
SLIP INSERT SET (4 PC) FOR 3-1/2" X 1" (1.315")	65252-1.315
SLIP INSERT SET (4 PC) FOR 3-1/2" X 1-1/4" (1.660")	65652-1.660
SLIP INSERT SET (4 PC) FOR 3-1/2" X 1-1/2" (1.900")	65652-1.900
SLIP INSERT SET (4 PC) FOR 3-1/2" X 2-1/16"	65652-2.060
SLIP INSERT SET (4 PC) FOR 3-1/2" X 2-3/8"	65652-1
SLIP INSERT SET (4 PC) FOR 3-1/2" X 2-7/8"	65652-2
SLIP INSERT SET (4 PC) FOR 3-1/2" X 3-1/2"	65652-3
REPLACEMENT INSERTS FOR MODEL "C" AND "CHD" TUBING SPIDER (4-1/2" BODY)	
SLIP INSERT SET (4 PC) FOR 4-1/2" X 3-1/2"	65653-1
SLIP INSERT SET (4 PC) FOR 4-1/2" X 4-1/2"	65653-2
SLIP INSERT SET (4 PC) FOR 4-1/2" X 4-1/2"	65653-3
REPLACEMENT TOP LOAD INSERTS FOR MODEL "C" AND "CHD" TUBING SPIDER (4-1/2" BODY)	
TOP LOAD INSERT SET (4 PC) FOR 3-1/2" X 2-3/8"	65652-ITL
TOP LOAD INSERT SET (4 PC) FOR 3-1/2" X 2-7/8"	65652-2TL
TOP LOAD INSERT SET (4 PC) FOR 3-1/2" X 3 1/2"	65652-3TL

**SAFETY CLAMP**

PIPE DIAMETER	CLAMP MODEL	# REQUIRED	REF #
1-1/8" - 4-1/2"	TYPE "T"	4 UP TO 6	7624-A-21
3-3/4" - 21"	TYPE "C"	7 UP TO 22	7624-A-4
2-7/8" - 5"	TYPE "MP-S"	8 UP TO 9	3333
4-1/2" - 30-1/2"	TYPE "MP-R", "M", "L", "XL"	8 UP TO 27	3310



We are an oilfield products company serving the well service, drilling and completion sectors of the oil and gas industry. With over 25 years of experience, serving both the domestic and international markets, we understand your needs and requirements. Our equipment and tools are manufactured in accordance to API 7K and 8A standards.

MOT products include hydraulic power tongs, bucking units, torque turn systems and pipe handling tools used by drilling, well service and completion companies, as well as tubular service and threading shops, in order to efficiently & effectively carry out their operations.

## WARRANTY

Midland Oil Tools & Services, Inc. (MOT) manufactured items are warranted free of material and workmanship defects for a period of six (6) months from the date of delivery. Any item that fails because of a manufacturing defect during that period of time, the item will be replaced by MOT. Expendable / Consumable items, such as but not limited to inserts & dies, friction bands, rollers & gears, are not covered under this warranty. MOT liability is limited to the replacement of the defective parts only and does not include the cost of labor or shipping charges connected to the replacement of these parts. No expressed, implied or statutory guarantee other than herein set forth is made or authorized to be made by MOT.

**Your tubular makeup and breakout equipment specialist.**

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