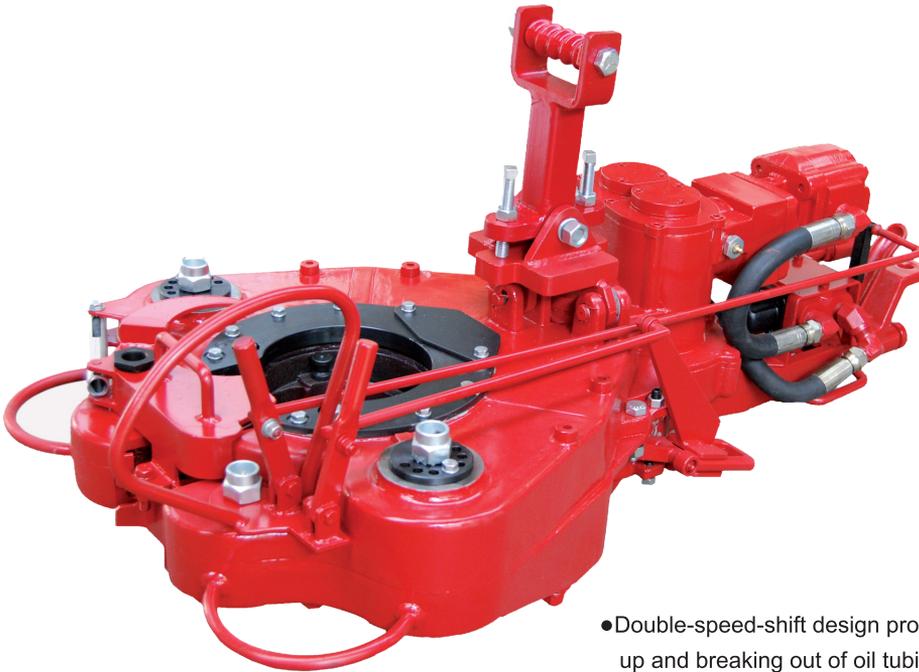


# WELL SERVICING EQUIPMENT

## Power Tong

### JES RS Hydraulic Power Tong



- Double-speed-shift design provides safe making up and breaking out of oil tubings
- Integral sprocket and outer ring (sprocket teeth machined on outer ring)
- Traditional chain-driven design
- Replacing high torque hydraulic power motor to realize torque output as high as 9KN.m (6KN.m for standard configuration)

Model	RS	RS Hi-Torque
Pipe Range (in/mm)	2 3/8~4 1/2 (60~114)	2 3/8~4 1/2 (60~114)
Tubing Size (in/mm)	1.050~1.900 (26~48)	1.050~1.900 (26~48)
Torque Range (ft-lbs/kN.m)	1200~4650 (1.6~6.3)	1700~6650 (2.3~9)
High Rotating Rates (RPM)	83	68
Low Rotating Rates (RPM)	21	18
System Pressure (Psi/Mpa)	2000(14)	
System Oil Supply(GPM/LPM)	13~30(50~120)	
Backup Type	Manual MS	
Weight (lbs/kg)	770 (350)	
Overall Dimensions (L×W×H)	51"×27"×15"	



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# WELL SERVICING EQUIPMENT

## Power Tong

### JES Model 45000 Hydraulic Power Tong



- Safety door- operational lock-out device prevents tong from operating with door open
- Load-bearing door minimizes case spreading effect
- Flip-top lid for easy access to brake band
- Gear-driven, chainless design proves planetary gear transimission

Pipe Range (in/mm)	2 3/8~4 1/2 (60~114)
Tubing Size (in/mm)	1.315~2.063 (33~52)
Max. Torque of High Gear (ft-lbs/kN.m)	1916 (2.6)
Max. Torque of Low Gear (ft-lbs/kN.m)	6670 (9)
High Rotating Rates (RPM)	82
Low Rotating Rates (RPM)	22
Max. High Rotating Speed (RPM)	96
Max. Low Rotating Speed (RPM)	26
Rated Pressure (Psi/Mpa)	2000 (14)
Max. Pressure (Psi/Mpa)	2500 (17)
Rated Flow (GPM/LPM)	20~30 (80~120)
Max. Flow (GPM/LPM)	35 (140)
Weight (lbs/kg)	620 (285)
Overall Dimensions (L x W x H)	31" x 43" x 26"



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# WELL SERVICING EQUIPMENT

## Power Tong

### JES Model 58-93R Tubing Tong



- Hydraulic lift, pressure oil bath lubrication, hardened internal gears, roller chain final drive and two-speed operation.
- Uses the familiar five-jaw and jaw carrier gripping system
- Optional manual, air or hydraulic backup; optional hydraulic lift cylinder
- Optional torque arm (stiff arm)

Application Range (in/mm)	2 3/8~3 1/2 (60~89) tubing
Max. Passing Diameter (in/mm)	5 (127)
High Gear Rated Torque (ft-lbs/kN.m)	300~1300 (0.41~1.76)
Low Gear Rated Torque (ft-lbs/kN.m)	6000 (8.13)
High Gear Rated Speed (RPM)	126
Low Gear Rated Speed (RPM)	27
Thickness of Master Tong (in/mm)	9 1/2 (242)
Max. Dimension of Glide Elevator (in/mm)	30 (762)
Distance between Tubing Center and Knot Tail Rope (in/mm)	30 (762)
Rated System Pressure (Psi/Mpa)	1880 (13)
Versa Dint of Knot Tail Rope (lbs/kg)	2050 (930)
Max. Oil Supply (GPM/ LPM)	33.3 (126)
Weight (lbs)	1000



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# WELL SERVICING EQUIPMENT

## Power Tong

### JES MK II Sucker Rod Tong



- Specially designed clamping mechanism to make up and break out fast and safely
- With the tong on rod, adjust the leveling screw at the top of the hanger to hang perfectly level while threading rod
- Advanced torque sensor system actually displays the right torque value when making up
- The master tong is equipped with an automatic safety-gate with function of safety and protection.

Applicable Range (in/mm)	5/8~1 (15.875~25.4) Sucker Rod
	1.050~1.900 (26~48) Tubing
Max. Working Torque (ft-lbs/kN.m)	1850 (2.5)
Top Rotating Speed (RPM)	85
Working Pressure (Psi/Mpa)	1000~1700 (7~12)
Oil Supply (GPM/ LPM)	20~30 (80~120)
Total Weight of Tong Body (lbs/kg)	370 (170)
Dimension (L x W x H)	34" x 15" x 18"



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# WELL SERVICING EQUIPMENT

## Power Tong

### XQ28 Sucker Rod Tong

JES XQ28 Sucker Rod Tong clamps sucker rod with corresponding jaw set. Dies can be equipped to master tong according to customer's request. Torque control valve is optional upon customer's requirement.



XQ 28/1.8Y



XQ 28/2.6Y

Model	XQ 28/1.8Y	XQ 28/2.6Y
Pipe Size Range of Master Tong	5/8"~1 1/8" sucker rod	5/8"~1 1/8" sucker rod
	1 7/8"~2 3/8" tubing	
Pipe Size Range of Backup Tong	5/8"~1 1/8" sucker rod	5/8"~1 1/8" sucker rod
	1 7/8"~2 3/8" tubing	
High Gear Rated Torque	516 ft-lbs / 700 N.m	740 ft-lbs / 1000 N.m
Low Gear Rated Torque	1330 ft-lbs / 1800 N.m	1920 ft-lbs / 2600 N.m
High Gear Rated Speed	104 r/min	98 r/min
Low Gear Rated Speed	40 r/min	32 r/min
Rated Operation Pressure	1450 Psi / 10 Mpa	1450 Psi / 10 Mpa
Max. Flow	17 GPM/ 65 LPM	21 GPM/ 80 LPM
Dimension (L x W x H)	21" x 13" x 16"	26" x 15" x 19"
Weight (Including Backup Tong)	231 lbs / 105 kg	220 lbs / 100 kg



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# WELL SERVICING EQUIPMENT

## Power Tong

### XYQ Series Hydraulic Power Tong

JES XYQ Series Hydraulic Power Tong is used for quick make-up and break-out in well service operation, equipped with hydraulic backup tong and inner curved cam to clamp.

#### Features

- Clamp tubing with corresponding dies, jaw set or die seat
- Torque control valve can be equipped upon customer's request
- With lengthening guide pole assembly the backup tong can clamp tubing body
- Torque control system can be equipped according to customer's request



XYQ89/3C



XYQ114/6B



XYQ140/12A



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# WELL SERVICING EQUIPMENT

## Power Tong

### XYQ Series Hydraulic Power Tong

Model	XYQ89/3C	XYQ114/6B	XYQ140/12A
Pipe Size Application Range	2 3/8" ~ 3 1/2"	2 3/8" ~ 4 1/2"	2 3/8" ~ 5 1/2"
High Gear Rated Torque	811 ft-lbs	1100 ft-lbs	1920 ft-lbs
	1100 N.m	1500 N.m	2600 N.m
Low Gear Rated Torque	2210 ft-lbs	4425 ft-lbs	8850 ft-lbs
	3000 N.m	6000 N.m	12000 N.m
High Gear Rated Speed	90 r/min	85 r/min	72 r/min
Low Gear Rated Speed	30 r/min	20 r/min	14 r/min
Rated Operation Pressure	1450 psi	1595 psi	1740 psi
	10 Mpa	11 Mpa	12 Mpa
Max. Flow	21 GPM	26 GPM	32 GPM
	80 LPM	100 LPM	120 LPM
Dimension (L x W x H)	26" x 17" x 22"	30" x 20" x 24"	40" x 23" x 21"



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# WELL SERVICING EQUIPMENT

## Heavy-Duty Rod Hook

Models RH-20 RH-25 and RH-35

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JES Rod Hooks are available with load rating of 20, 25 and 35 tons, mainly used in well service operation. The alternative to the standard lock is a new latching mechanism that further enhances operator safety. It is suitable for all depth and operation conditions.



RH-20



RH-25



RH-35



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# WELL SERVICING EQUIPMENT

## Heavy-Duty Rod Elevator

Models RES-1 and REP-1

JES Heavy-Duty Rod Elevators are available in solid or plate-type body style. Reversible body combined with front and rear latches makes operation easier.



Model	RES-1 Solid Body	REP-1 Plate-Type Body
Capacity (lbs/kg )	50000 (22680)	50000 (22680)
Weight (lbs/kg )	32 (14.5)	31 (14.1)
Size Range(in)	1/2~1-1/8	



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# WELL SERVICING EQUIPMENT

## Tubing Spiders

Models C,CHD,HD,E

- JES Tubing Spiders of four models C, CHD,HD,E
- Choice of different size ranges and tonnage ratings for single-string operations
- Use two slip body assembly halves
- Special design of flexible door allowing cable and tubular passing
- Pneumatic operation



Model	Slip Body (in)	Handling Pipe Size (in)	Max. Load (lb)
C	3 1/2	1.315~3 1/2	160000
	4 1/2	3 1/2~4 1/2	
	Solid Slip Body	4 3/4~5 1/2	
CHD	3 1/2	1.315~3 1/2	240000
	4 1/2	3 1/2~4 1/2	
	Solid Slip Body	4 3/4~5 1/2	
HD	3 1/2	1.315~3 1/2	250000
	4 1/2	3 1/2~4 1/2	
	Solid Slip Body	4 3/4~5 1/2	
E	3 1/2	2 3/8~3 1/2	350000
	5 1/2	4~5 1/2	
	7	5 1/2~7	
	Solid Slip Body	7 5/8	



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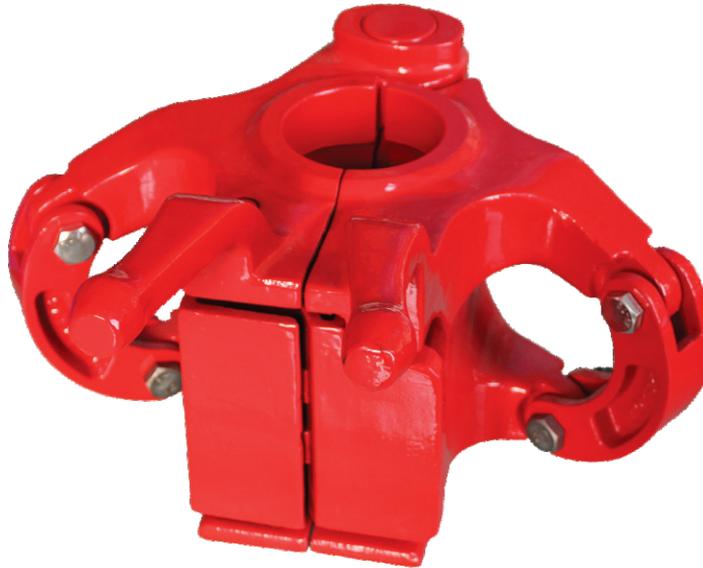
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# WELL SERVICING EQUIPMENT

## Elevator

### JES Type TA Elevator

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- Safety latch and latch lock design
- Raised load-bearing surface versus traditional elevators. When repairing, this surface can be machined instead of being forced to build up elevator body.
- Rear handle for safer handling

Model	Application Range (in)	Rated Load (ton)
TA/35	1.05~2 7/8	35
TA/65	1.66~2 7/8	65
TA/100	2 3/8~2 7/8	100
	2 3/8~5	
TA/150	4 1/8~8 5/8	150
	9~11 1/4	



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# WELL SERVICING EQUIPMENT

## Miscellaneous

### JES Sucker Rod Wrench and Elevating Socket

#### Sucker Rod Wrench

Sucker Rod Wrench	JES-7/8	JES-1	JES-1 1/8	JES-1 5/16	JES-1 1/2
Rod/Coupling Square Size (in)	7/8	1	1 1/8	1 5/16	1 1/2
Sucker Rod Size (in)	5/8SR	3/4-7/8SR	7/8EL SR	1SR	1 1/8SR



#### Sucker Rod Elevating Socket

Size of Sucker Rod(in)	5/8	3/4	7/8	1	1 1/8
Capacity(lb)	400				



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# IRON ROUGHNECK

## LM120



### Technical Specifications

Technical Specifications	
Clamping Range	3 1/2" ~9 5/8"
Maximum Breakout Torque	120,000 ft.lbs
Maximum Makeup Torque	103,000 ft.lbs
Spinning Speed	80r/min
Maximum Horizontal Moving Distance of Wrench	55"
Maximum Vertical Moving Distance of Wrench	27.5"
Torque Wrench Rotating Angle in the Horizontal Plane	± 45°
Torque Wrench Rotating Angle in the Vertical Plane	± 10°
Rotating Angle of Main Clamp for Makeup and Breakout	27°
Maximum Spinning Torque	2,900 ft.lbs
External Dimensions after Withdrawal (L*W*H)	82" × 63" × 160"
Weight of Whole Machine	13,000lbs



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