



JES Rotary Table

JES Rotary Tables support counterforce of drill pipe and the mass of pipe string and strip drill pipe, also adjust and control direction of drilling bit. The pinion and gear are made of alloy steel. Effective lubrication and reliable seals are provided. JES offers rotary tables conforming to API Spec 7K.





Main Specification of Rotary Table

| Model | | ZP175 | ZP205 | ZP205-II |
|---------------------------|------------|----------------|----------------|----------------|
| Opening Dia. | mm(in) | 444.5 (17-1/2) | 520.7 (20-1/2) | 520.7 (20-1/2) |
| Table Center to Sprocket | mm(in) | 1118 (44) | 1353 (53-1/4) | 1118 (44) |
| Max. Static Load | kN(US ton) | 2700 (300) | 3150 (350) | 3150 (350) |
| Max. Working Torque | Nm(ft-lbs) | 13729 (10125) | 22555 (16635) | 22555 (16635) |
| Max. Speed | r/min | 350 | 300 | 300 |
| Gear Ratio | | 3.75 | 3.22 | 3.79 |
| Overall Dimension (LxWxH) | in | 78x54x22 | 87x59x26 | 78x56x24 |
| Weight | kg(lbs) | 3666 (8075) | 5500 (12100) | 5450 (12000) |

| Model | | ZP275 | ZP375 | ZP495 |
|---------------------------|------------|----------------|----------------|-----------------|
| Opening Dia. | mm(in) | 698.5 (27-1/2) | 952.5 (37-1/2) | 1257.3 (49-1/2) |
| Table Center to Sprocket | mm(in) | 1353 (53-1/4) | 1353 (53-1/4) | 1651 (65) |
| Max. Static Load | kN(US ton) | 4540 (500) | 5850 (650) | 7250 (800) |
| Max. Working Torque | Nm(ft-lbs) | 27459 (20250) | 32362 (23865) | 37000 (27290) |
| Max. Speed | r/min | 300 | 300 | 300 |
| Gear Ratio | | 3.67 | 3.56 | 3.93 |
| Overall Dimension (LxWxH) | in | 94x66x27 | 97x71x28 | 116x86x32 |
| Weight | kg(lbs) | 6122 (13500) | 7970 (17555) | 11626 (25600) |

*master bushing equipped depend on customer requirement.

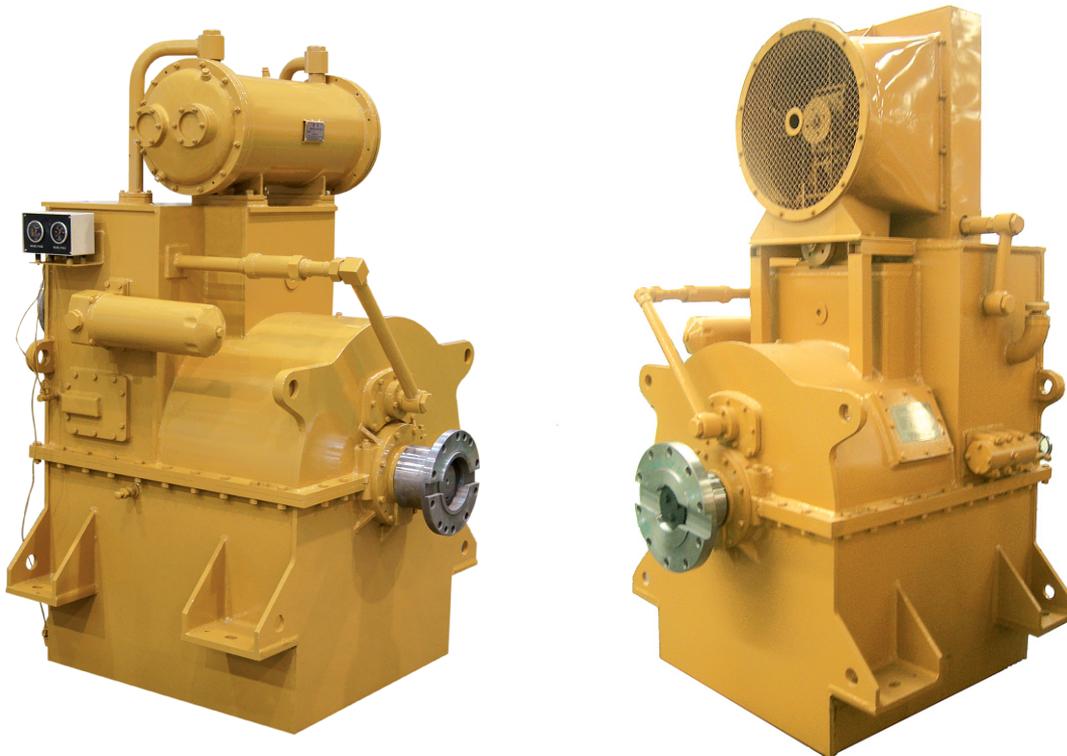
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HYDRAULIC TRANSMISSION

Hydraulic Coupling Reverse Gear Box

Models 560 650 750 875

- The product features the combination of fixed tubes for oil drain and imported valve control and regulation to realize the adjustment of speed. With advantages of on-load startup, overload protection, torsional vibration isolation, impact mitigation, stepless speed regulation, quick and steady clutch, etc, the product is the best variable speed drive for mud pump.
- Mud pump driven by Diesel/Coupling Reverse Reducing Gear Box Unit removes driving belt, mechanical gear box and air clutch, which simplifies the transmission system with improvement of efficiency and transportation.
- With functions of clutch, it is possible to apply the clutch when no impact and wearing appear.
- Mud pump driven by Diesel/Coupling Reverse Reducing Gear Box Unit to meet the requirements of different displacement and pressure of mud pump. By either adjusting the diesel throttle and replace liner, or regulating the coupling control valve that changes mud pump displacement and pressure in a certain range, the diesel can keep working with high efficiency (≥ 1000 r/min).



JOLLY ENGINEERING SERVICES INC.

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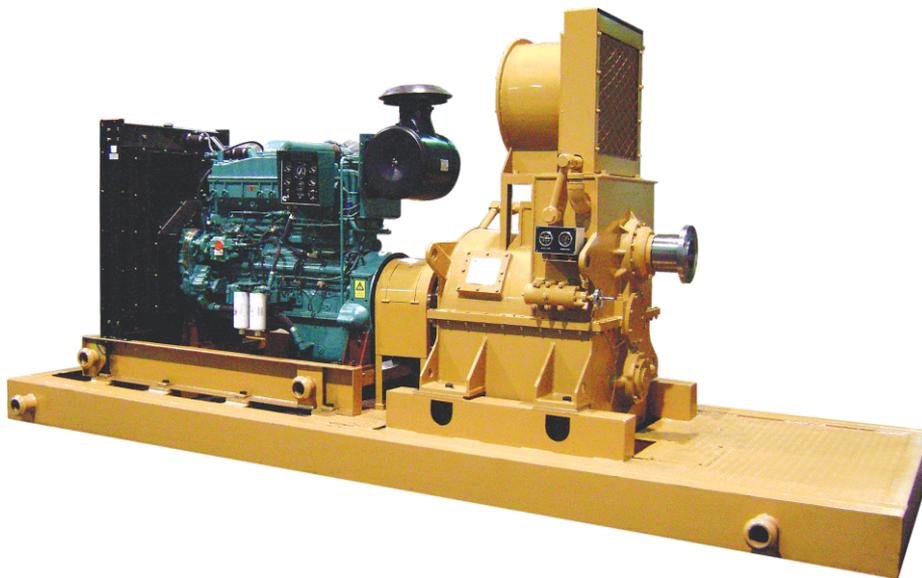
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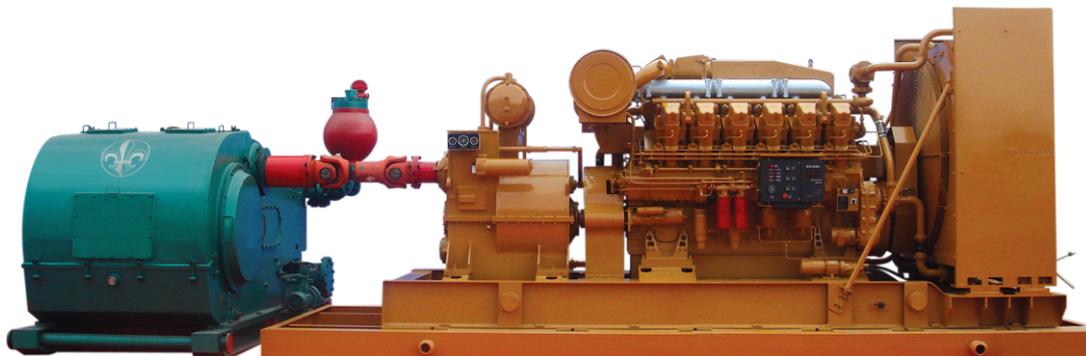
HYDRAULIC TRANSMISSION

Hydraulic Coupling Reverse Gear Box

Models 560 650 750 875



Independent Air Cooling and Independent Mounting



United Water Cooling and Shared Mounting

| Model | Diameter of working cavity(mm) | | | |
|-----------------------------------|---|----------|-----------|-----------|
| | 560 | 650 | 750 | 875 |
| Transferred Power Range(KW) | 350~960 | 730~1960 | 600~1300 | 1000~3000 |
| Input Speed(RPM) | 1500~2100 | | 1000~1500 | |
| Reduction Ratio | 1.5~3.5 | | 2.0~3.3 | |
| Reaction Sensitivity of Clutching | 8~20s | | 8~10s | |
| Rated Slip | 3%~5% | | | |
| Speed Governing Range | 1~1/3 | | | |
| Temperature of Working Oil | ≤110° C | | | |
| Oil Grade | 6# or 8# (6# hydraulic driving oil is used under the condition of ambient temperature of above -20 °C, and 8# oil is used below -20 °C) | | | |
| Cooling Mode | United Water Cooling/Independent Air Cooling | | | |



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Annular BOP

JES Annular BOP is featured by safe operation, no requirements for maintenance, and adaptability of production operations. The standard design is studded top and flanged bottom providing convenient replacement of all sealing devices and main parts when necessary. It is manufactured according to API Spec 16A.





Specifications of Annular BOP

| Model | FH18-35 | FH18-35/70 | FH23-35 | FH23-35/70 |
|-----------------------------|--------------|---------------|---------|------------|
| Bore Size (in) | 7-1/16 | 7-1/16 | 9 | 9 |
| Working Pressure (psi) | 5000 | 5000 | 5000 | 5000 |
| Ring Groove | R46 | | R50 | |
| Gals. to Open (1set) | 3.22 | 3.22 | 8.72 | 8.72 |
| Gals. to Close (1set) | 4.57 | 4.57 | 11.1 | 11.1 |
| Hydraulic Port Size | 1" NPT | 1" NPT | 1" NPT | 1" NPT |
| Top Connection (studded) | 7-1/16"×5000 | 7-1/16"×5000 | 9"×5000 | 9"×5000 |
| Bottom Connection (flanged) | 7-1/16"×5000 | 7-1/16"×10000 | 9"×5000 | 9"×10000 |

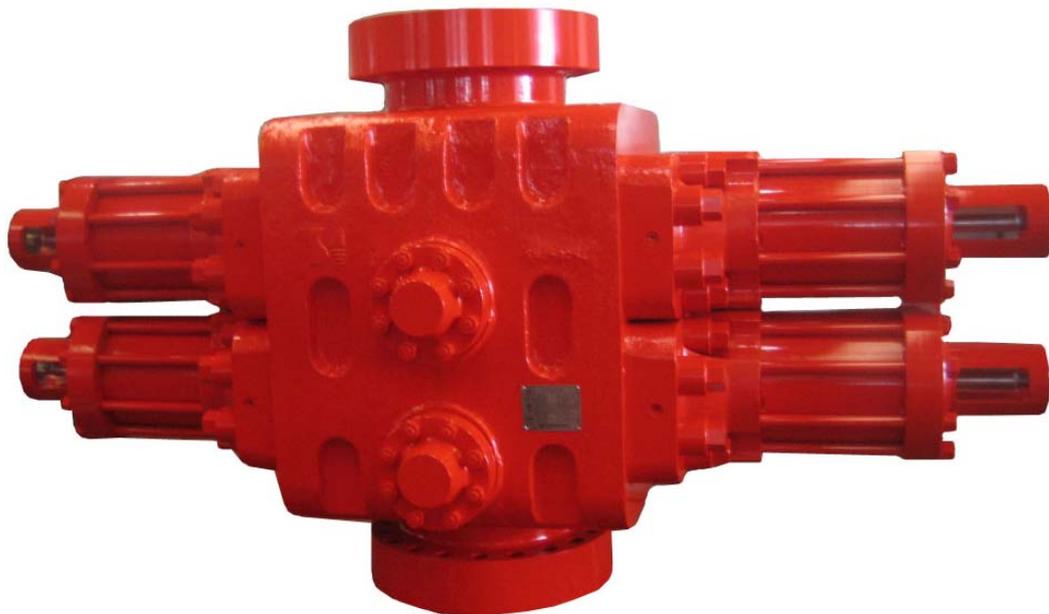
| Model | FH28-35 | FH28-70 | FH35-35 | FH35-35/70 |
|-----------------------------|----------|-----------|--------------|---------------|
| Bore Size (in) | 11 | 11 | 13-5/8 | 13-5/8 |
| Working Pressure (psi) | 5000 | 10000 | 5000 | 5000 |
| Ring Groove | R54 | BX158 | BX160 | BX160 |
| Gals. to Open (1set) | 15.2 | 24.83 | 18.2 | 18.2 |
| Gals. to Close (1set) | 19.3 | 30.65 | 24.8 | 24.8 |
| Hydraulic Port Size | 1" NPT | 1" NPT | 1" NPT | 1" NPT |
| Top Connection (studded) | 11"×5000 | 11"×10000 | 13-5/8"×5000 | 13-5/8"×5000 |
| Bottom Connection (flanged) | 11"×5000 | 11"×10000 | 13-5/8"×5000 | 13-5/8"×10000 |

| Model | FH35-70 | FH35-70/105 | FH53-21 | FH54-14 |
|-----------------------------|---------------|---------------|--------------|--------------|
| Bore Size (in) | 13-5/8 | 13-5/8 | 20-3/4 | 21-1/4 |
| Working Pressure (psi) | 10000 | 10000 | 3000 | 2000 |
| Ring Groove | BX159 | BX159 | R74 | R73 |
| Gals. to Open (1set) | 32.76 | 32.76 | 29.1 | 16.9 |
| Gals. to Close (1set) | 40.16 | 40.16 | 45.7 | 32.7 |
| Hydraulic Port Size | 1" NPT | 1" NPT | 1" NPT | 1" NPT |
| Top Connection (studded) | 13-5/8"×10000 | 13-5/8"×10000 | 20-3/4"×3000 | 21-1/4"×2000 |
| Bottom Connection (flanged) | 13-5/8"×10000 | 13-5/8"×15000 | 20-3/4"×3000 | 21-1/4"×2000 |



Ram BOP

JES Ram BOPs are essential equipment in well control, featuring flexible closings and openings, easy operation, safe service and simple maintenance, usually combined with hydraulic control system. They can be equipped with rams of various sizes. JES ram BOPs are designed and manufactured according to API Spec 16A Standard.





Specifications of Single Ram BOP

| Model | FZ18-35 | FZ18-70 | FZ23-35 | FZ23-70 |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| Bore Size (in) | 7-1/16 | 7-1/16 | 9 | 9 |
| Bit Working Pressure (psi) | 5000 | 10000 | 5000 | 10000 |
| Ring Groove | R46 | BX156 | R50 | BX157 |
| Gals. to Open Pipe Rams (1set) | 1.03 | 1.45 | 2.32 | 3.04 |
| Gals. to Close Pipe Rams (1set) | 1.06 | 1.49 | 2.69 | 3.17 |
| Hydraulic Port Size | 1"NPT | 1"NPT | 1"NPT | 1"NPT |
| Top Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Bottom Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Side Outlet (studded) | N/A | 2-1/16" | 2-1/16" | 2-1/16" |

| Model | FZ28-21 | FZ28-35 | FZ28-70 | FZ28-105 |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| Bore Size (in) | 11 | 11 | 11 | 11 |
| Bit Working Pressure (psi) | 3000 | 5000 | 10000 | 15000 |
| Ring Groove | R53 | R54 | BX158 | BX158 |
| Gals. to Open Pipe Rams (1set) | 2.74 | 2.74 | 3.95 | 4.5 |
| Gals. to Close Pipe Rams (1set) | 3.17 | 2.88 | 3.81 | 4.6 |
| Hydraulic Port Size | 1"NPT | 1"NPT | 1"NPT | 1"NPT |
| Top Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Bottom Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Side Outlet (studded) | 3-1/8" | 3-1/8" | 3-1/16" | 3-1/16" |

| Model | FZ35-35 | FZ35-70 | FZ35-105 | FZ53-21 | FZ54-14 |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Bore Size (in) | 13-5/8 | 13-5/8 | 13-5/8 | 20-3/4 | 21-1/4 |
| Bit Working Pressure (psi) | 5000 | 10000 | 15000 | 3000 | 2000 |
| Ring Groove | BX160 | BX159 | BX159 | R74 | R73 |
| Gals. to Open Pipe Rams (1set) | 4.46 | 7.32 | 8.13 | 2.11 | 3.04 |
| Gals. to Close Pipe Rams (1set) | 4.71 | 8.01 | 8.16 | 2.24 | 3.59 |
| Hydraulic Port Size | 1"NPT | 1"NPT | 1"NPT | 1"NPT | 1"NPT |
| Top Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Bottom Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Side Outlet (studded) | 4-1/16" | 4-1/16" | 4-1/16" | 3-1/8" | 4-1/16" |



Double Ram BOP

| Model | 2FZ18-35 | 2FZ18-70 | 2FZ23-35 | 2FZ23-70 |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| Bore Size (in) | 7-1/16 | 7-1/16 | 9 | 9 |
| Bit Working Pressure (psi) | 5000 | 10000 | 5000 | 10000 |
| Ring Groove | R46 | BX156 | R50 | BX157 |
| Gals. to Open Pipe Rams (1set) | 2.06 | 2.9 | 4.64 | 6.09 |
| Gals. to Close Pipe Rams (1set) | 2.11 | 3.1 | 5.38 | 6.34 |
| Hydraulic Port Size | 1"NPT | 1"NPT | 1"NPT | 1"NPT |
| Top Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Bottom Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Side Outlet (Studded) | N/A | 2-1/16" | 2-1/16" | 3-1/8" |

| Model | 2FZ28-21 | 2FZ28-35 | 2FZ28-70 | 2FZ28-105 |
|---------------------------------|-----------------|-----------------|-----------------|-----------------|
| Bore Size (in) | 11 | 11 | 11 | 11 |
| Bit Working Pressure (psi) | 3000 | 5000 | 10000 | 15000 |
| Ring Groove | R53 | R54 | BX158 | BX158 |
| Gals. to Open Pipe Rams (1set) | 5.48 | 5.48 | 7.71 | 8.9 |
| Gals. to Close Pipe Rams (1set) | 6.34 | 5.76 | 7.4 | 8.98 |
| Hydraulic Port Size | 1"NPT | 1"NPT | 1"NPT | 1"NPT |
| Top Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Bottom Connection | Studded/Flanged | Studded/Flanged | Studded/Flanged | Studded/Flanged |
| Side Outlet (Studded) | 2-1/16" | 3-1/8" | 3-1/16" | 3-1/16" |

| Model | 2FZ35-35 | 2FZ35-70 | 2FZ35-105 | 2FZ53-21 | 2FZ54-14 |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| Bore Size (inches) | 13-5/8 | 13-5/8 | 13-5/8 | 20-3/4 | 21-1/4 |
| Bit Working Pressure (psi) | 5000 | 10000 | 15000 | 3000 | 2000 |
| Ring Groove | BX160 | BX159 | BX159 | R74 | R73 |
| Gals. to Open Pipe Rams (1set) | 8.9 | 14.7 | 16 | 4.17 | 6.08 |
| Gals. to Close Pipe Rams (1set) | 9.25 | 16.02 | 16.2 | 4.46 | 7.19 |
| Hydraulic Port Size | 1"NPT | 1"NPT | 1"NPT | 1"NPT | 1"NPT |
| Top Connection | Studded/Flang | Studded/Flang | Studded/Flang | Studded/Flang | Studded/Flang |
| Bottom Connection | Studded/Flang | Studded/Flang | Studded/Flang | Studded/Flang | Studded/Flang |
| Side Outlet (Studded) | 4-1/16" | 4-1/16" | 4-1/16" | 3-1/8" | 4-1/16" |



JES Hook-Block

JES supplies complete series of Jointed Hook-Blocks with integral design which shortens the overall length of traveling system and satisfies the requirements of operating with top drive. JES jointed hook-blocks conform to API Spec 8C and API monogram can be used.





Specification Data of Hook-Block

| Model | | YG135/150 | | YG180/200 |
|-------------------|-------------|-------------|-------------|--------------|
| Load Rating | kN(US tons) | 1350 (150) | | 1800 (200) |
| Sheave Dia. | mm(in) | 760 (30) | 915 (36) | 915 (36) |
| Qty. of Sheaves | | 4 | | 5 |
| Drilling Line | mm(in) | 26 (1) | 29 (1 1/8) | 29 (1 1/8) |
| Hook Opening | mm(in) | 150 (6) | | 200 (7.9) |
| Overall Dimension | in | 116x33x26 | 122x39x26 | 134x38x29 |
| Weight | kg(lbs) | 3126 (6885) | 3426 (7550) | 4594 (10120) |

| Model | | YG225/250 | | | |
|-------------------|-------------|--------------|------------|--------------|------------|
| Load Rating | kN(US tons) | 2250 (250) | | | |
| Sheave Dia. | mm(in) | 915 (36) | | 1120 (44) | |
| Qty. of Sheaves | | 5 | | | |
| Drilling Line | mm(in) | 29 (1 1/8) | 32 (1 1/4) | 29 (1 1/8) | 32 (1 1/4) |
| Hook Opening | mm(in) | 190 (7.5) | | | |
| Overall Dimension | in | 142x38x31 | | 146x47x31 | |
| Weight | kg(lbs) | 6200 (13660) | | 6600 (14550) | |

| Model | | YG315/350 | | YG450/500 |
|-------------------|-------------|---------------|---------------|---------------|
| Load Rating | kN(US tons) | 3150 (350) | | 4500 (500) |
| Sheave Dia. | mm(in) | 1120 (44) | 1270 (50) | 1524 (60) |
| Qty. of Sheaves | | 5 | | 6 |
| Drilling Line | mm(in) | 35 (1 3/8) | 32 (1 1/4) | 35 (1 3/8) |
| Hook Opening | mm(in) | 220 (8.7) | | 220 (8.7) |
| Overall Dimension | in | 159x47x35 | 165x53x35 | 192x63x35 |
| Weight | kg(lbs) | 10229 (22530) | 10860 (23920) | 12530 (27600) |



JES Traveling Block

Structure Features

- JES Traveling Block complies with API 8A Standard and conforms to SY/T5527 Specification.
- The pulley can exchange with the matching crown pulley.
- The pulley has been intermediate frequency quenched, which improves the hardness of the surface, the weariness, and the service life.

| Model | YC225 | YC315 | YC450 | YC585 |
|--------------------------------|--|--|--|------------------------------------|
| Max. Hook Load (lbs) | 505,820 | 708,148 | 1,011,640 | 1,315,132 |
| Number of Pulleys | 5 | 6 | 6 | 7 |
| Pulley Outside Diameter mm(in) | 1,120(44) | 1,270(50) | 1,524(60) | 1,524(60) |
| Wirerope Diameter mm(in) | 29(1 ¹ / ₈); 32(1 ¹ / ₄) | 32(1 ¹ / ₄); 35(1 ³ / ₈) | 35(1 ³ / ₈); 38(1 ¹ / ₂) | 42(1 ⁵ / ₈) |
| Overall Dimension (ft) | 8.23×3.90×2.06 | 8.79×4.42×3.19 | 10.15×5.24×2.65 | 10.17×5.24×3.16 |
| Weight (lbs) | 8,400 | 15,080 | 18,170 | 21,160 |

JES Hook

Structure Features

- JES hook complies with API 8A Standard and conforms to SY/T5527 Specification.
- The hook is equipped with reliable safety devices on the main hook.
- The main parts are made of high stress alloy steel subjected to nondestructive test.

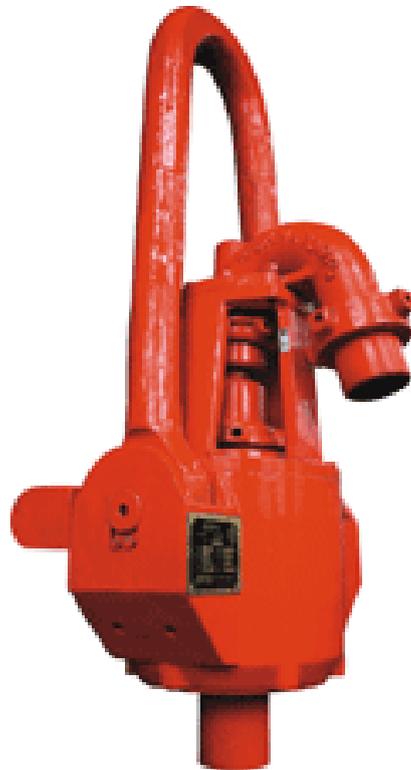
| Model | DG225 | DG315 | DG450 | DG675 |
|-------------------------------------|----------------|----------------|----------------|-----------------|
| Max. Hook Load (lbs) | 505,820 | 483,339 | 1,011,640 | 1,517,460 |
| Opening Dimension of Main Hook (in) | 7-1/2 | 8-5/8 | 8-5/8 | 9-3/8 |
| Spring Working Stroke (in) | 7 | 8 | 8 | 8 |
| Overall Dimension (ft) | 8.34×2.55×2.46 | 9.68×2.92×2.72 | 9.68×2.92×2.88 | 10.35×3.05×3.05 |
| Weight (lbs) | 4,806.07 | 7,517.75 | 7,707.35 | 8,598.01 |

Parts for hook-block can be sourced in China! Just contact us!



JES Rotary Swivel

JES Rotary Swivel is designed and manufactured in accordance with API Spec 8C. The wash pipe packing set assembly adopts cassette structure, which can be exchanged quickly without disassembling rotary hose and gooseneck. There are 3LP and 4LP internal or external thread hose connection thread for option.





Specification Data of Rotary Swivel

| Model | | SL135/150 | SL160/180 | SL180/200 |
|---------------------------|------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Max. Static Load | kN/US tons | 1350/150 | 1600/180 | 1800/200 |
| Max. Speed | r/min | 300 | | |
| Max. Working Pressure | MPa/psi | 35/5000 | | |
| Stem Dia. | mm/in | 60/2.36 | | 70/2.75 |
| Connection Tread | stem | 4 ¹ / ₂ FH-LH | 4 ¹ / ₂ REG-LH | 4 ¹ / ₂ REG-LH |
| | kelly | 6 ⁵ / ₈ REG-LH | | |
| Overall Dimension (LxWxH) | mm | 2290x650x640 | 2470x790x680 | 2725x840x785 |
| | in | 90x26x25 | 97x31x27 | 107x33x31 |
| Weight | kg/lbs | 777/1700 | 1000/2200 | 1150/2500 |

| Model | | SL225/250 | **SL315/350 | SL450/500 |
|---------------------------|------------|--------------------------------------|---------------|--------------------------------------|
| Max. Static Load | kN/US tons | 2250/250 | 3150/350 | 4500/500 |
| Max. Speed | r/min | 300 | | |
| Max. Working Pressure | MPa/psi | 35/5000 | | |
| Stem Dia. | mm/in | 75/2.95 | | |
| Connection Tread | stem | 6 ⁵ / ₈ REG-LH | | 7 ⁵ / ₈ REG-LH |
| | kelly | 6 ⁵ / ₈ REG-LH | | |
| Overall Dimension (LxWxH) | mm | 2970x990x980 | 3010x1040x980 | 3040x1110x1095 |
| | in | 117x39x39 | 118x41x39 | 120x44x43 |
| Weight | kg/lbs | 2500/5500 | 2600/5700 | 2700/5950 |

Parts for rotary swivel can be sourced in China! Just contact us!