

# KS JAVA STAR 3

## GENERAL

RIG NAME : KS JAVA STAR 3  
 RIG TYPE : Jack-up  
 RIG DESIGN : Friede & Goldman JU2000E  
 YEAR BUILT / UPGRADED : 2016/2017  
 BUILDER : ZPMC  
 CLASSIFICATION : ABS Maltese Cross A1 Self-Elevating  
 Drilling Unit + HELIDK  
 FLAG : Marshall Island

## MAIN PARTICULARS

HULL LENGTH : 231 ft  
 HULL BREADTH : 250 ft  
 HULL DEPTH : 31 ft  
 TRANSIT DRAFT : 21 ft  
 NO. OF LEGS / TYPE : 3, Triangular Truss  
 LEG LENGTH : 547 ft / 480 ft below hull  
 CANTILEVER REACH : 75 ft longitudinal  
 15 ft transverse port & stbd  
 ACCOMMODATION : 150 POB  
 HELIDECK : Octagonal Helideck  
 83 ft x 83 ft, 12.8 tons capacity  
 Designed for Sikorsky S61N / S92  
 MOORING SYSTEM : Winches 4 x 60 Tons  
 Anchors 4 x 7.5 Tons Delta Flipper

## STORAGE CAPACITIES

FUEL OIL : 3,885.6 bbls  
 DRILL WATER : 8,188.4 bbls  
 POTABLE WATER : 3,425.2 bbls  
 LIQUID MUD (TOTAL) : 4,826 bbls  
 BRINE : 1,380 bbls  
 BASE OIL : 1,380 bbls  
 BARITE / BENTONITE : 9,180 ft<sup>3</sup>  
 BULK CEMENT : 9,180 ft<sup>3</sup>  
 SACK STORAGE : Min. 5,000 sacks

## JACKING SYSTEM

MAKE / MODEL : F&G / Rack & Pinion  
 NO. OF PINIONS : 54 pinions  
 MAX JACKING LOAD : 385 tonnes/pinion (Normal Jacking)  
 522 tonnes/pinion (Preload Jacking)  
 JACKING SPEED : 1.5 ft/sec

## OPERATIONAL CAPABILITIES

WATER DEPTH : 400 ft  
 DRILLING DEPTH : 35,000 ft  
 VARIABLE LOAD : 5,644 kips  
 8,303 kips  
 6,603 kips  
 5,644 kips

TRANSIT  
 DRILLING  
 SURVIVAL  
 JACKING

## CRANES

PORT SIDE FORWARD : ZPMC 1x 80 MT @ 25 ft, 120 ft boom  
 STBD FWD, STBD AFT : ZPMC 2x 50 MT @ 25 ft, 120 ft boom



## POWER SUPPLY SYSTEM

ENGINES NO. / MODEL : 6x CAT 3516B HD  
 ENGINES POWER : 2,150 hp at 1,200 rpm each (12,900hp)  
 POWER GENERATORS : 6x KATO 1530 kW at 1,200 rpm each  
 EMERGENCY POWER : 1x CAT 3512B 1,757 hp at 1,800 rpm  
 EMERGENCY GENERATORS : 1x CAT SR4 B 1,310 kW at 1,800 rpm

## DRILLING EQUIPMENT

DERRICK MAKE : Cameron DD-1000-III  
 DERRICK DIMENSIONS : 194 ft x 40 ft x 40 ft  
 STATIC HOOK LOAD : 2,000 kips  
 DRAWWORKS : Cameron Ultra Hoist SG1060-6000,  
 1,060 sh  
 DRAWWORKS POWER : Continuous 4,600 hp, Max 6,000 hp w/  
 2" x 7,500 ft drilling line  
 TRAVELLING BLOCK : 1,100 sh-ton 8 x 72" sheaves  
 ROTARY TABLE : 49-1/2" 1,000 kips  
 TOP DRIVE : TTS Energy, TD-100-AC-2M 2,000 kips  
 2x GE 1150hp AC motors 132,880 Nm  
 (98,000 ft-lbs) at Continuous Torque

## WELL CONTROL EQUIPMENT

DIVERTER : GE, KFDJ 49-1/2" 1,000 psi  
 BOP SPHERICAL : 1x Hydrill 18-3/4" 10k psi  
 BOP RAMS : 2x Hydrill 18-3/4" 15k psi double

## MUD SYSTEM

WORKING PRESSURE : 7,500 psi  
 MUD PUMP : 3x 2,200 hp LEWCO Mdl W2214, 7.5k psi  
 SHALE SHAKERS : 5x MI Swaco MD-3 (1 for a Mud Cleaner)  
 Triple Deck 925 gpm (3,500 l/min) each  
 MUD CLEANER : Desilter: 20x 4" cones, 1,500 gpm  
 Desander: 3x 12" cones, 1,500 gpm  
 DEGASSER : 2 x MI Swaco Degasser, 1,000 gpm each

# KS DRILLING

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