

Drilling Equipment

SJ is dedicated to the research and development of oil & gas exploration and production equipment technologies, covering truck-mounted drilling rigs, Big Easy drilling rigs, trailerized electric drilling rigs, cold weather drilling rigs, pad drilling rigs, heli-portable drilling rigs, trailer-mounted desert drilling rigs, full hydraulic drilling rigs, etc. Our technologies are featured by fast movement, fast installation, automatic control and excellent adaptability in complex environment. Our products have obtained series perfect achievements.

Based on the characteristics of shale gas development in China, we have adopted guide-rail type, stepping type movement mechanism to realize the rig movement with full setback between wells, and have developed pipe handling system, integrated control system for drifter to realize application of automatic drilling technologies in well plant mode, to provide high-end equipment for shale gas development.



Automatic pipe handling system

Powered catwalks

Stepping type rig movement mechanism

Guide rail type rig movement

Automatic Pipe Handling System

Monkey board installation height	25m
Suitable pipe sizes	5"-8"
Maximum lifting capacity	60kN

- Newly-created "upper support lower holding" type structure in the world, suitable for modification of existing conventional.
- Pipe feeders adopt rectangular coordinate type trajectory and slantingly-arranged drill strings, featuring high reliability.
- Full hydraulic motor for chain movement, HNC hydraulic digital control, PLC plus electric-hydraulic-proportional type closed-loop control, with position and status monitoring for movement and gripping.
- Full automatic control mode, being able to be switched to manual mode in case of emergency.

Powered Catwalks

Model	SPC2000	SPC5000	SPC7000
Suitable drill floor height	≤5	7.5-9	9-12
Maximum pipe length	10	11.5	11.5
Maximum pipe OD mm	473	508	508

Rig Movement Devices for Cluster Well Operation

Model	Max. moving weight	moving direction
SDG700 guide rail type	6000(1300000)	single row
S-TS700 roller rail type	7000(1500000)	single row
SWS 1500 stepping type	15000(3300000)	360°



Series of BIG-EASY Drilling Rigs

Model	Max. hook load kN(lb)	Rated HP, drawworks kW(hp)
BE380L	1700(380000)	550(750)
BE550	2500(550000)	735(1000)
BE770	3500(770000)	1100(1500)
BE1100	5000(1100000)	1470(2000)

- Featuring fast rig-down, movement and rig-up. AC VFD, full trailerized modules, low position installation, integrated lifting. The modules are connected through pins, convenient for dismantling, with good adaptability for different purposes.
- This type of rig was awarded National Invention Patent, and ever exported to USA and Middle East in batch.

Series of Modularized Drilling Rig

Model	Max. hook load kN(lb)	Rated HP, drawworks kW(hp)
SZJ170D/DB/L	1700(380000)	600(800)
SZJ225D/DB/LDB/L	2250(500000)	800(1100)
SZJ315D/DB/LDB/L	3150(700000)	1100(1470)
SZJ450D/DB/LDB/L	4500(1000000)	1470(2000)
SZJ675D/DB	6750(1500000)	2210(3000)

Helicopter Drilling Rigs

Model	Max. hook load kN(lb)	Rated HP, drawworks kW(hp)
SLH147	1470(330000)	410(550)
SLH170DB	1580(355000)	560(750)
SLH225DB	2250(500000)	735(1000)
SLH315DB	3150(700000)	1100(1470)

Desert Trailer-mounted Drilling Rig

Model	SZJ450D
Max.weight of substructure/whole moving capacity :	350 / 400 t
Max.weight of mast/whole moving capacity :	132 / 140 t



Series of Cold Weather Pad Drilling Rigs

Model	Max. hook load kN(lb)	Rated HP, drawworks kW(hp)
SLT225DB/D	2250(500000)	735(1000)
SLT315DB/D	3150(700000)	1100(1470)
SLT450DB/D	4500(1000000)	1470(2000)
SLT675DB/D	6750(1500000)	2210(3000)

- Modularized rig for cluster well operation, suitable ambient temperature: -45°C~45°C, humidity ≤90% .
- Featuring modularization design. The main rig and unitized equipment are designed for working in one platform, and can be moved to the next well head as a whole along guide rails.

Series Of Track-mounted Drilling Rigs Trailer-mounted Drilling Rigs



Model	Max. hook load kN(lb)	Rated HP, drawworks kW(hp)
SZJ112CZ/TZ(ZJ10/1125CZ)	1120(250000)	336(450)
SZJ135CZ/TZ(ZJ15/1350CZ)	1350(300000)	410(550)
SZJ147CZ/TZ(ZJ20/1470CZ)	1470(330000)	485(650)
SZJ170CZ/TZ(ZJ30/1700CZ)	1700(380000)	560(750)
SZJ225CZ/TZ(ZJ40/2250CZ)	2250(500000)	735(1000)
SZJ170DBT(ZJ30DBT)	1700(380000)	560(750)
SZJ225DBT(ZJ40DBT)	2250(500000)	735(1000)

Coal-bed Methane Drilling Rigs

Model	Max. hook load kN(lb)	Engine HP kW(hp)
SCB60YZ(SCB590)	590(130000)	345(475)
SCB75YZ	750(130000)	403(540)
SZJ147CZ(ZJ20)	1470(330000)	485(650)

