

# ZQ203/75X 型钻杆动力钳



## Model ZQ203/75X DRILL PIPE POWER TONG

ZQ203/75X 型钻杆动力钳是油田在钻井作业中用来上卸钻井管柱螺纹的一种开口式动力钳，采用行星爪夹紧，属最新专利产品，适用管柱范围为 127 ~ 203 mm (3 1/2"~5 1/2"钻杆接头、8" 钻铤、7" 及以下套管)。采用二档变速，配备液动背钳，具有结构简单、性能可靠、寿命长等优点，是油田钻井作业的理想选择。

Model ZQ203/75X hydraulic power tong is a open head power tong which can make-up or break-out pipe strings in drilling services. It adopts planetary claw clamping mechanism. The power tong applies to the pipes ranging from 127mm to 203mm (drilling pipe joint 3 1/2"~5 1/2", drill collar 8", casing pipe 7" and pipes below 7" ). It adopts two-gear speed shift, equipped with hydraulic backup tong , stable operation, reliable performance, long life,etc, making it an ideal choice in the oil drilling operation.

### 特点/Characteristics:

➤ 采用国家发明专利技术，在适应范围内卡紧任意管径不更换任何零部件。

Adopts national patent technology, clamps any pipes within its application range without changing any parts.

➤ 采用刹车箍制动，结构简单，拆装、调整方便。

Adopts braking hoop to achieve braking, simple structure, convenient dismantling and adjusting.

➤ 采用牙嵌式气胎离合器，可不停车换档，换档稳定可靠。

Adopts coupling air tube clutch, stable and reliable gear shifting may be conducted without stopping the machine.

➤ 配备安全门，既安全又提高了钳头刚性。

Being equipped with the safety door, safety and the tong head's rigidity is improved .

➤ 悬吊背钳，主钳浮动于背钳上，跟随管柱移动，不仅省去弹簧悬吊装置，还可减轻上卸扣过程中管柱螺纹的磨损。

With the backup tong suspending and the master tong floating over the backup tong and moving in pace with the pipe, the spring suspension device is spared, besides, the wear of the pipe string in the course of the make-up and break-out operation can be reduced.

➤ 可与机械手配套，由多路阀控制主钳、背钳及机械手的平移和升降，操作灵活，定位准确。

Can support the manipulator, the multichannel valve controls the horizontal movement and lifting movement of the master tong and the backup tong with flexible operation and accurate positioning.

➤ 可选配扭矩控制系统，用以显示、记录和控制上扣扭矩。

With optional torque control system to display, record and control the make-up torque.



### 技术参数 Technical parameters

1	适用管径 Application range	3 1/2" ~5 1/2" 钻杆接头、8" 钻铤、7" 及以下套管	
2	输出扭矩 Torque range @2320PSI / 16 MPa	高档 High: 3690 ft·lbs/ 5000 N·m	低档 Low: 55310 ft·lbs/ 75000 N·m
3	最大转速 Max RPM @32GPM / 120 LPM	高档 High: 40 RPM	低档 Low: 2.7 RPM
4	额定供油 Oil flow	2320 PSI @32 GPM / 16 MPa @120 LPM	
5	额定供气 Air flow	73~131 PSI / 0.5~0.9 MPa	
6	移送气缸行程 Cylinder range	59" / 1.5 m	
7	外形尺寸 Overall dimension(L×W×H)	60.2"×30.7"×43.3" / 1530×780×1100mm	
8	重量 Weight	3300lbs / 1500kg	

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