

Iron Roughneck

Iron Roughneck is a piece of hydraulic machinery used to "handle" (connect and disconnect) segments of pipe in a modern drilling rig. Iron Roughneck is a convenient and modularized product. The tool is used for make-up and break-out operations of drill pipes, drill collars, casings and other type couplings from 3 1/2" to 8 1/2". It is an upgrade product. This product suits for hot or cool environment, onshore or offshore locations. Thus, it is the best wellhead equipment for achieved oilfield mechanic modernization. [Iron Roughneck](#) can be remote controlled. It is designed and manufactured according to API Spec 7k specifications.

General Features



TZ series Iron Roughnecks are advanced automatic make-up/break-out equipment, mostly used in drilling string operations. Suitable for onshore and offshore drilling operations.

Details

The TZ series iron roughneck were developed to provide the market with more reliable technology and more hoisting performance. Modular designed with simple structure, the iron roughneck is easy to transport and maintenance. Suitable for make-up/break-out operation for drilling string such as [drilling pipe](#), drilling collar, and other drilling tools with diameter range of 3-1/2" – 9-5/8". Included but not limited by the advantages mentioned, YG series of hook blocks might be your best choice.

General Features

- Manufactured according to API 7K
- Suitable for cold area and desert environment
- Suitable for onshore and offshore rigs
- Both remote control and direct control available

Main Parameters

Clamp Range: 3-1/2" – 9-5/8" (88.9 mm – 245 mm)

Maximum Break-out Torque: 163 kN.m (120,000 lbs.ft)

Maximum Make-up Torque: 140 KN.m (103,000 lbs.ft)

Parameters

| | |
|-----------------------|---------------------------------------|
| Clamp OD Range | 3-1/2 DP ~ 9-5/8 DC |
| Max. Make-up Torque | 163kN.m (120 kft.lbs) |
| Max. Break-out Torque | 140kN.m (103 kft.lbs) |
| Spinner Speed | 60-70r/min (5" DP) |
| Horizontal Travel | 1400mm(55") |
| Vertical Travel | 700mm(27.5") |
| Horizontal Move Angle | ±45° |
| Vertical Move Angle | ±10° |
| Spinner Angle | 27° |
| Spinner Torque | 4kN.m (2900ft.lbs) |
| Dimension | 2090*1590*4050 mm 82" * 63" * 160" |